SERVICE MANUAL



US Model Canadian Model **UK Model** West Germany Model

E Model

TC-K222ESG TC-K850ES

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

"DOLBY" and the double-D symbol [1] are trademarks of Dolby Laboratories Licensing Corporation.

Model Name Using Similar Me	chanism New
Tape Transport Mechanism Ty	pe TCM-200D2

SPECIFICATIONS

Recording system Bias

4-track 2-channel stereo AC bias

Heads

Erase head × 1 (S & F head)

Recording head × 1 (Permalloy head)

Motors

Playback head × 1 (LA head) Capstan motor x 1

(direct drive linear torque BSL motor) Reel motor × 1 (DC motor)

DC motor x 1

Wow and flutter

0.024% WRMS (NAB), ±0.065% (DIN)

Fast-forward and rewind time Approx. 90 sec. (with C-60 cassette)

Frequency response	(DOLBA NR OFF)	
TYPE IV cassette (Sony METAL-ES)	15-21,000 Hz (±3 dB, DIN) 15-16,000 Hz (0VU recording)	
TYPE II cassette (Sony UX-S)	15-19,000 Hz (±3 dB, DIN)	
TYPE I cassette	15-17,000 Hz (±3 dB, DIN)	

Signal-to-noise ratio (at peak level)

Dolby NR switch Cassette	OFF	B-TYPE ON	C-TYPE ON
TYPE IV (Sony METAL-ES)	61 dB	70 dB	76 dB
TYPE II (Sony UX-S)	59 dB	68 dB	74 dB
TYPE I (Sony HF-S)	57 dB	66 dB	72 dB

Total harmonic distortion

1.0% (with Sony METAL-ES cassette)

Inputs	
1.	•

·		
Line inputs	Sensitivity	77.5 mV (-20 dB)
(phono jacks) CD DIRECT input (phono jacks)	Input impedance	50k ohms

Outputs			
Line outputs (phono jacks)	Rated output level	0.44 V (-5 dB) at a load impedance 47k ohms	
	Load impedance	Over 10k ohms	
Headphones (stereo phone jack)	Output level	0-2.5 mW at a load impedance of 32 ohms	

General

Power requirements

Power consumption

Dimensions

Weight

West Germany model:
220 V AC, (or 240 V AC adjustable
by Sony personnel), 50/60 Hz
US, Canadian model:

120 V AC, 60 Hz

UK model: 240 V AC (or 220 V AC adjustable by Sony personnel), 50/60 Hz model:

120, 220, or 240 V AC adjustable, 50/60 Hz

23 W

Approx. $430 \times 135 \times 350 \text{ mm (w/h/d)}$

Approx. $430 \times 135 \times 350 \text{ mm (w/n/d)}$ $(17 \times 5^3/_8 \times 13^7/_6 \text{ inches})$ Approx. $470 \times 135 \times 350 \text{ mm (w/h/d)}^*$ $(18^3/_2 \times 5^3/_6 \times 13^3/_6 \text{ inches})^*$ Approx. 6.9 kg (15 lbs 4 oz)Approx. $7.9 \text{ kg (17 lbs 7 oz)}^*$

* including projecting parts, controls and wooden side panels Audio connecting cord (2) Supplied accessory Optional accessory Wireless remote control unit RM-J701

Design and specifications subject to change without notice.

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

> STEREO CASSETTE DECK SONY

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Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

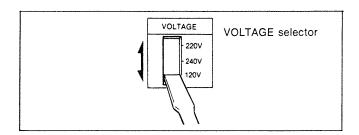
- · Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.

Operating voltage

Before connecting the unit to the power source, check that the operating voltage of your unit is the same as the local power supply.

If your model has a voltage selector on the rear panel and it must be reset, disconnect the AC power cord and set the selector to the appropriate voltage.



SAFETY-RELATED COMPONENT WARNING!!

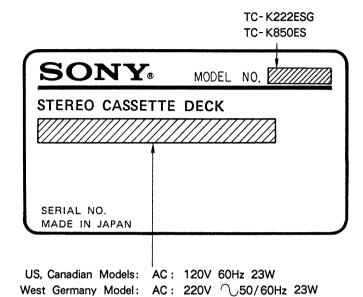
COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DÉS PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

MODEL IDENTIFICATION

- Specification Label -



UK Model: AC: 240V √50/60Hz 23W

√ √50/60Hz 23W

E Model: AC: 120, 220, 240V

SAFETY CHECK-OUT

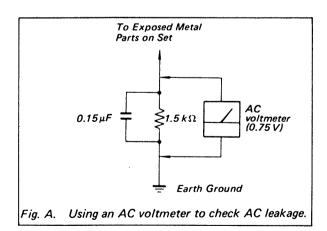
After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

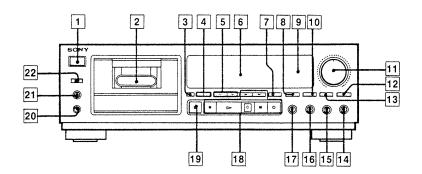
The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)



SECTION 1 GENERAL

LOCATION AND FUNCTION OF CONTROLS



- 1 POWER switch
- 2 Cassette holder
- 3 DISPLAY MODE button
- 4 COUNTER buttons
 RESET button/MEMORY button
- 5 | ⊲ ⇒ ⊳ AMS (Automatic Music Sensor) buttons
- 6 LINEAR COUNTER and PEAK PROGRAM METER
- 7 MONITOR button
- 8 MPX FILTER button
- 9 Remote sensor *
- 10 HX PRO button
- 11 REC LEVEL (recording level) control
- 12 INPUT button
- 13 CALIBRATION button
- 14 BALANCE control
- 15 REC LEVEL (recording level) control (for calibration)
- 16 BIAS (bias adjust) control
- 17 DOLBY NR switch

- 18 Tape operation buttons and indicators
 - ◄ (rewind) button
 - (stop) button
 - ▶ (play) button and indicator
 - (fast-forward) button
 - REC (record) button and indicator
 - II PAUSE button and indicator
 - O REC MUTE (record muting) button
- 20 HEADPHONES jack (stereo phone jack)
- 21 PHONE LEVEL (headphone level) control
- 22 TIMER switch

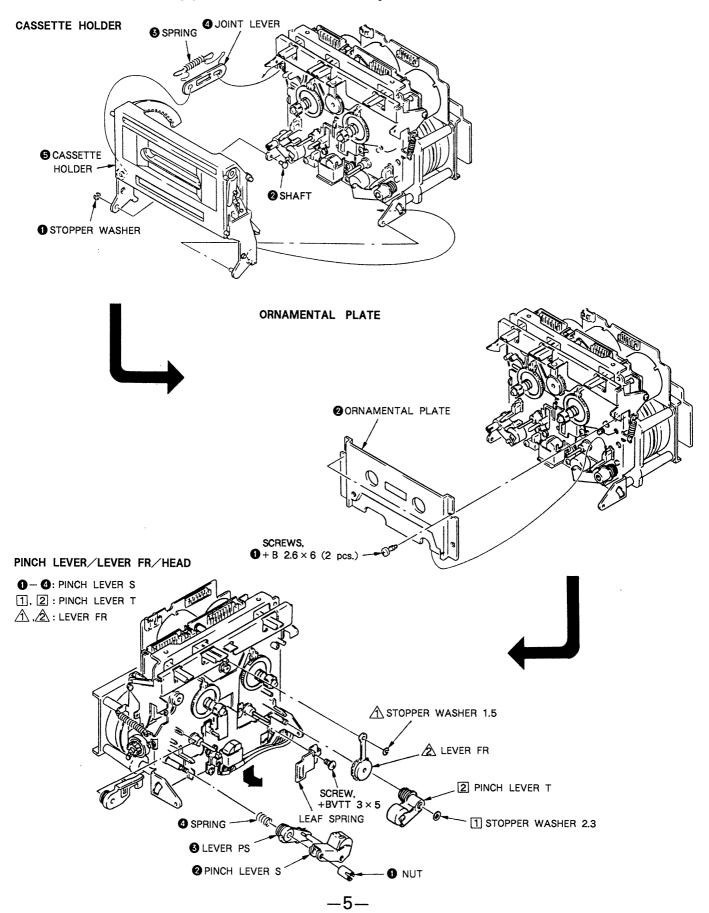
- A remote commander that has an

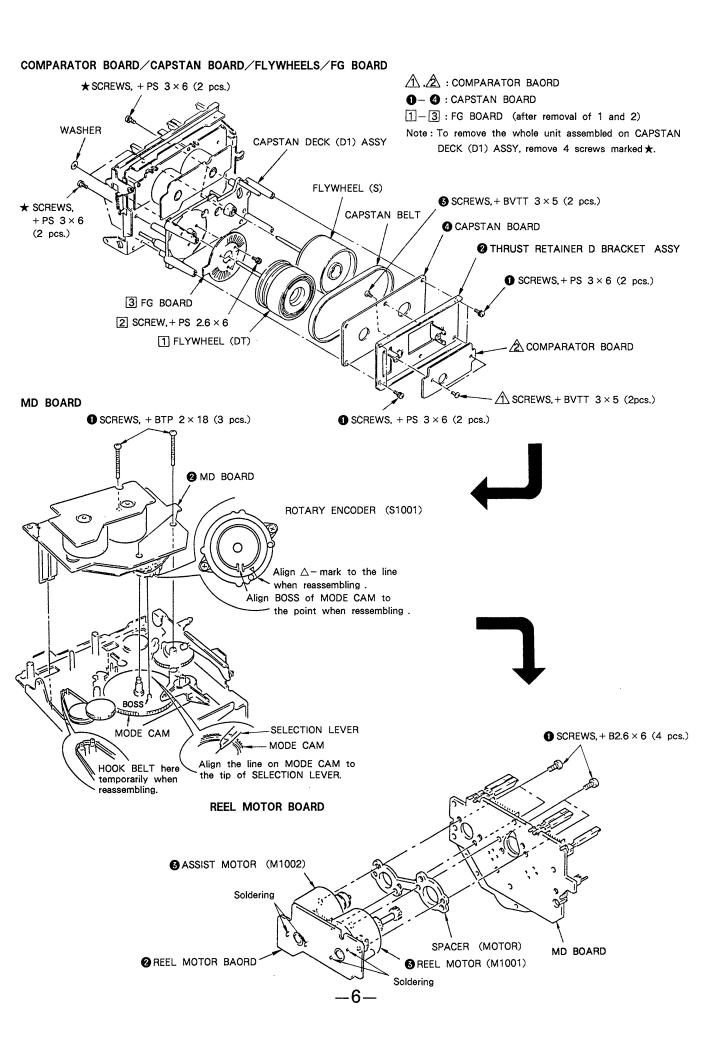
 mark and comes
 with a Sony amplifier or receiver and which can be used
 to control a cassette deck.
- An optional Sony remote commander that has an mark.

^{*} You can remotely control this cassette deck with:

SECTION 2 DISASSEMBLY

NOTE: Follow the disassembly procedure in the numerical order given.





SECTION 3 ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head

pinch roller

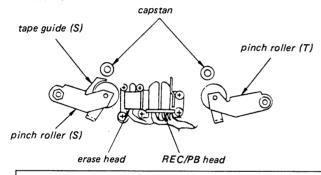
erase head

rubber belts

capstan

idlers

- 2. Demagnetize the record/playback and erase head with a head demagnetizer.
- 3. Do not use a magnetized screwdriver for the adjustments.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.



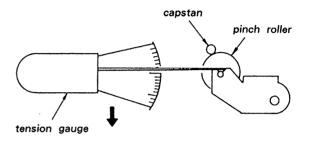
Pinch Roller Pressing Force Measurement

Mode: playback

Hook needle of the tension gauge to the pinch roller shaft and push back pinch roller to detach it from capstan. Then, return it gradually to capstan and read the gauge when the pinch roller begins turnning.

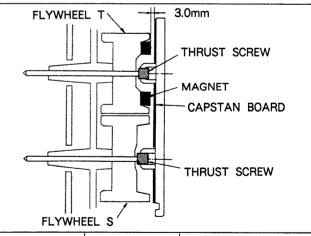
Standard Limits:

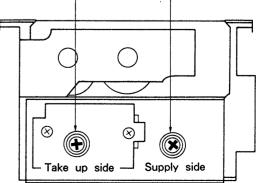
Tape-up side: 270 - 350g (9.5 - 12oz)Supply side: 180 - 280g (6.4 - 9.9oz)



FLYWHEELS T/S THRUST ADJUSTMENT

- 1. FLYWHEEL T THRUST ADJUSTMENT:
 Insert 3mm thick spacer guage into the clearance between magnet of FLYWHEEL T and CAPSTAN Board, and adjust THRUST SCREW so that thrust play is 0.2 0.4mm.
- 2. FLYWHEELS THRUST ADJUSTMENT: Tighten THRUST SCREW lightly until the flywheel has no play and then loosen the screw by 1/2-3/4 turns.
- 3. After adjustments, apply locking compounce to the screws.





REAR VIEW OF MECHANISM

Tape Path Adjustment

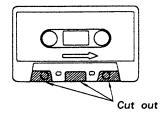
· Refer to Adjustment Position on page 10.

Note: When using the adjustment methods for other than replacement reasons, please do not tamper unnecessarily with the adjustment screws or the erasehead because either the supply pinch roller guide or the record/playback head will be made the standard tape paths. Moreover, when it is necessary to adjust and replace two or more of any of the heads and/or pinch rollers, replace them one by one, completely taking out the first tape path, and then replacing the second one.

Preparation:

 Mirror cassette CQ009C 8-909-708-01 (or CQ012C 8-909-708-02)

If one does not have this, cut out the sections of a 120-minute cassette shell as indicated below and use that cassette.



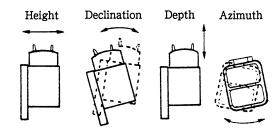
2. Phillips screwdriver (medium-size):

For the head adjustment screws Blade-type screwdriver (large-size):

For the supply pinch roller adjustment screws

- 3. Pen light
- 4. WS-48B (3 kHz, 0 dB)
- 5. P-4-A100 (10 kHz, -10 dB)

Definition of Terms: The figures are of a record/playback head.



Adjustment Method:

Supply Pinch Roller

Note: Only perform this adjustment when the supply pinch roller is to be replaced.

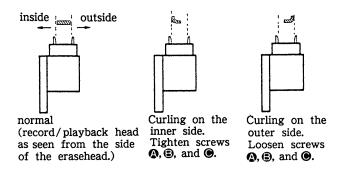
- Insert the mirror cassette and put the unit in record/playback mode.
- Check to see whether the tape is curling at the record/playback head guide or the pinch roller guide.

If it is curling, remove the curl by adjusting the tape curl adjustment screw. Then, check that the tape is running past the middle of the erasehead.

Record / playback Head

Note: Only perfom this adjustment when the record /playback head is to be replaced.

- 1. Insert the mirror cassette and put the unit in record/playback mode.
- 2. (Height Adjustment) Check to see if the tape is curling at the tape guide of the head. If it is curling, tighten screws ②, ③, and ④, respectively by the same angle, moving the head so that it remains at the same angle throughout the procedure. If it curls on the bottom side of the mirror cassette (actually the inner side), tighten all the screws equally; but loosen them if the tape begins to curl on the top side (outer side).



3. (Declination Adjustment) While in the record/playback position, set the back tension to 0 (wind the supply reel with something thin like a pencil in a counterclockwise direction) and make sure there is no curling or shifting (shifting up/shifting down) at the guide of the record/playback head.

Because shifting can only occur due to a difference in the width of the tape and that of the tape guides (curling will otherwise occur), it is necessary to pay close attention since it can be easily overlooked. When there is a shift, tighten screws ③ and ④ equally and change the declination of the head. If the tape is shifting up, tighten the screws, and if it is shifting

4. Repeat the adjustments in steps 2 and 3 and fine adjust the height and the declination.

down, loosen them.

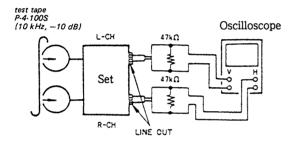
5. (Preliminary Azimuth Adjustment)

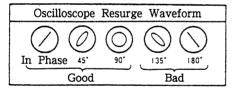
After demagnetizing and cleaning the adjustment head, play back WS-48B (3 kHz, 0 dB).

Turn screw • so that the reading on the level meter of the unit or that of the level meter connected to LINE OUT is maximized.

If the screw is turned at least half a revolution, repeat the adjustments from step 1.

6. (Tape Path Check) Connect the oscilloscope to LINE OUT and play back P-4-A100 (10 kHz, -10 dB) to display a resurge waveform. After 20 seconds of record/playback (after the tension within the loop has been increased sufficiently), make sure the variation in the resurge is within ± 90 degrees (within ± 45 degrees is desired). If the variation is greater than this, it is because the declination and/or the height adjustment is not perfect. Repeat the adjustments from step 1.

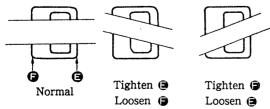




Erasehead

Note: Only perform this adjustment when the erasehead is to be replaced.

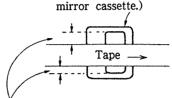
- Insert the mirror cassette and put the unit in record/playback mode.
- 2. (Azimuth Adjustment) Adjust the azimuth of the erasehead by adjusting screws (3) and (3) so that the tape runs as evenly as possible.



(The erasehead as seen when erasing the mirror cassette.)

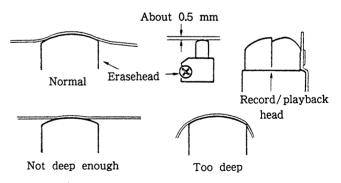
3. (Height adjustment) Turn screws ①, ②, and ③ all by the same angle so that the portions of the erasehead visible at top and bottom are nearly of equal width. If the width at the top is greater, tighten the screws; if the width at the bottom is greater, loosen the screws.

Erasehead (The erasehead as seen through the



Make these the same width.

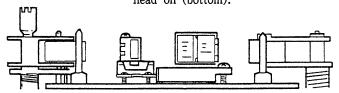
- 4. (Declination Adjustment) Leaving it in the playback position, put the back tension to 0 and make certain the erasehead part and supply pinch roller guide part do not shift. If there is a shift, turn the screw ① and change the declination. Looking at it using the mirror cassette, if the tape shifts up, tighten the screw, and if it shifts down, loosen the screw.
- 5. Repeat the adjustments beginning with step 2 and fine adjust the height and declination. And make sure the tape does not curl up on the pinch roller guide or the guide part of the record/playback head.
- 6. (Depth Adjustment) In order to make the entire head play the tape smoothly, and to make sure the depth of the erasehead is neither too shallow nor too deep, loosen screw (a) a bit.

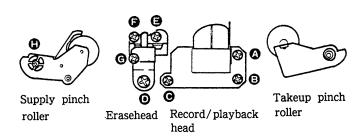


Check

- 1. Check to make sure that there are no curls or shifts throughout the whole tape path and that the tape runs smoothly.
- Reapply the locking compound to the adjusted screws. (The locking compound should only be applied to screw @ after the azimuth has been adjusted.)

Adjustment Position: As seen from the cassette, side (top) and MD as seen head on (bottom).





3-2. ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in this service manual.

The adjustments should be performed for both L-CH and R-CH.

• Simultaneous REC/PB Mode:

Input the signals to LINE IN terminal and set to REC mode. Set the monitor switch to TAPE, and monitor the recorded signal from LINE OUT terminal.

• Switch Position:

•
DOLBY NROFF
MPX FILTER OFF
TIMER OFF
MONITOR TAPE
HX PRO OFF
CALIBRATION OFF
CD DIRECT OFF
BIAS CENTER CLICK
REC LEVEL CENTER CLICK
BALANCE CLICK

• Standard Record:

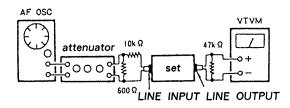
Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

Standard Input Level

Input Terminal	LINE IN
source impedance	10 kΩ
input level	0.25 V (-10 dB)

Standard Output Level

Output Terminal	LINE OUT	
load impedance	47 kΩ	
output level	0.44 V (-5 dB)	



Torque Adjustment and Measurement

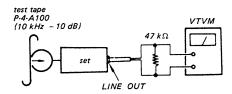
- Load a torque meter cassette CQ-102C and push button.
- 2. Adjust RV803 so that the reading on the torque meter is $40 \pm 3g \cdot \text{cm}$ (0.56 \pm 0.042oz \cdot inch).
- After the adjustment, apply suitable locking compound to RV803.

Torque	Torque Meter	Reading
FWD	CQ-102C	37-43g·cm (0.51-0.60oz·inch)
FWD Back tension	CQ-102C	8-10.5g · cm (0.11-0.15oz · inch)
FF/REW	CQ-201B	70 - 120g·cm (0.97 - 1.67oz·inch)

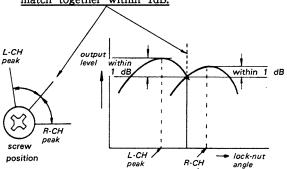
Playback Head Azimuth Adjustment

Procedure:

1. Mode: playback

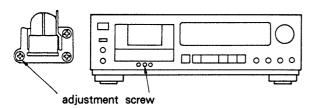


 Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw <u>until both of output levels</u> match together within 1dB.



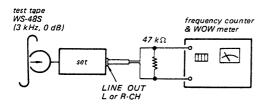
- 3. Phase check
 - By the means of 6. Tape Path check on page 9 confirm that phase difference is proper.
- After the adjustment, lock the adjustment screw with locking compaund.

Adjustment Location:



Tape Speed/WOW Check

Procedure:



- 1. Measure the output frequency and the WOW value while playing back the tape top of the test tape.
- 2. Turn over the test tape, measure the output frequency and the WOW value, and check the difference from the values of the step 1.

Adjustment Limits:

TAPE SPEED deviation: within 2,990 to

3,010 Hz

TAPE SPEED fluctuating width: within 2,990 to

3,010 Hz

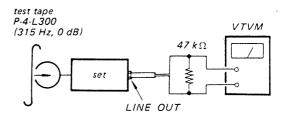
WOW (WRMS):

0.04 % or less

Playback Level Adjustment

Procedure:

Mode: playback



Adjust RV101 (L-CH) and RV201 (R-CH) to obtain the specified LINE OUT level.

Adjustment Limits:

LINE OUT level: 0.41 to 0.46 V

(-5.5 to -4.5 dB)

Level difference between channels:

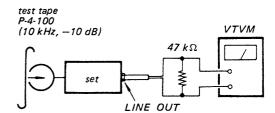
less than 0.5 dB

Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

PB DOLBY NR Check

Procedure:

1. Mode: playback



2. Make sure that the output levels are different in DOLBY NR OFF, B, and C.

Adjustment Limits:

OFF \rightarrow B level difference -1 to -3 dB B \rightarrow C level difference 1 to 3 dB

Meter Level Check

- Apply 315 Hz 0.245V (-10dB) signal to LINE IN and adjust REC VOL so that LINE OUT level is 0.436V (-5dB), and then confirm that 0 VU segments in level meter light or flicker.
- Adjust REC VOL to obtain 2.19V (9dB) output at LINE OUT and confirm that all segments in level meter light clearly.

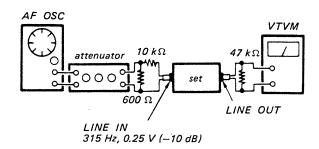
MPX FILTER Check

Setting: DOLBY switch: OFF

MPX FILTER switch: OFF

Procedure:

1. Mode: stop



- 2. Apply 315 Hz, 0.25 V (-10 dB) signal and adjust REC LEVEL control so that the LINE OUT level is 0.44 V (-5 dB).
- 3. Set DOLBY switch to B or C and MPX FILTER switch ON. Confirm that the LINE OUT level is 0.39V to 0.49V ($-5dB \pm 1dB$).
- 4. Apply 19kHz 0.25V (-10dB) signal and confirm that the LINE OUT level is 0.014V (-35dB) or less.

Adjustment Limits:

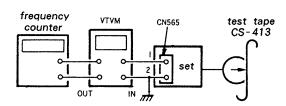
LINE OUT level

315Hz 0.39V - 0.49V (-5dB ± 1 dB)

19kHz 0.014V (-35dB)

Erase Current Adjustment

1. Mode: record



- 2. Adjust RV573 so that the reading on VTVM is 105mV (erase current=105mA).
- 3. And then confirm that the reading on the frequency counter is 160kHz.

Adjustment Limits:

Erase current: 105mA to 110mA

Frequency: $160 \pm 6 \text{kHz}$

Bias Current Adjustment

Note: This adjustment should be made before

Record Bias Adjustment.

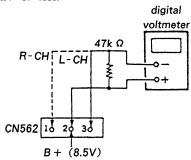
Setting: HX PRO switch: ON

Procedure:

- 1. Preset RV152 (L-CH), RV252 (R-CH) and RV574 in the center position, and record with no signal.
- Adjust T151 (L-CH) and T251 (R-CH) for minimum readings on the digital voltmeter.

Adjustment Limits:

120mV or less.



Record Bias and Record Level Adjustment

Setting:

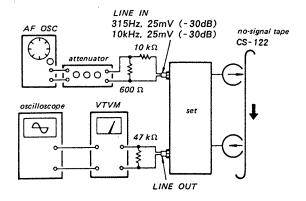
REC LEVEL knob: standard record position

(See page 10.)

HX PRO switch: ON

Procedure:

1. Mode: simultaneous REC/PB



- 2. Adjust RV153 (L-CH) and RV253 (R-CH) so that the playback output level of 10kHz signal is 0.2dB to 0.8dB with respect to that of 315Hz.

 • Record Bias Adjustment.
- 3. Adjust RV151 (L-CH) and RV251 (R-CH) so that the playback output level of 315Hz is -25.3dB to -24.7dB. • Record Level Adjustment.

Normal Bias Adjustment

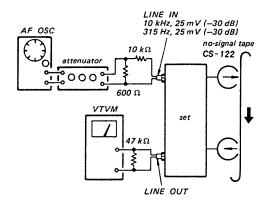
Setting:

REC LEVEL knob: standard record position

(See page 10.)

Procedure:

1. Mode: simultaneous REC/PB



2. Adjust RV152 (L-CH) and RV252 (R-CH) so that the output level of 10kHz is 0.2dB to 0.8dB with respect to that of 315Hz.

HX PRO Operation Check

Note: This check should be done after Normal Bias Adjustment in the same connection.

Procedure:

- 1. Mode: simultaneous REC/PB
- Record and playback 10kHz 0.25V (-10dB) signal in both modes of HX PRO ON and OFF.
- 3. Confirm that the playback output level when ON is 1dB or more with respect to that when OFF.

Metal Bias Adjustment

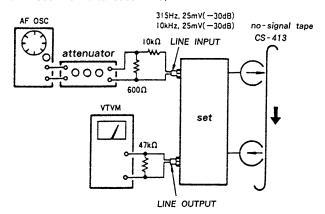
Setting:

REC LEVEL Knob: standard record position

(See page 10.)

Procedure:

1. Mode: simultaneous REC/PB



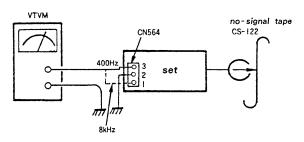
 Adjust RV574 so that the playback output level of 10kHz in R-CH is 0.2dB to 0.8dB with respect to that of 315Hz.

Calibration Meter Adjustment

Setting: CALIBRATION switch: ON

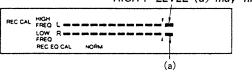
Procedure:

1. Mode: stop



- 2. Adjust RV572 for 400Hz and RV571 for 8kHz to obtain oscillation level within $10\pm0.5 dBs$ respectively.
- Put the set in record mode and adjust RV131 (HIGH) so that HIGH FREQ segments in the CAL LEVEL meter light thoroughly up to 0 VU as shown in the figure below. Segment (a) may flicker.
- Preset RV231 (LOW) so that segment (a) in LOW FREQ CAL LEVEL meter lights. Then adjust RV231 to the point where segment (a) goes out.

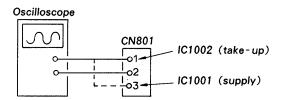
HIGH: LEVEL (a) may flicker.



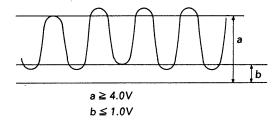
LOW: LEVEL (a) must not flicker.

Rotation Detect Check

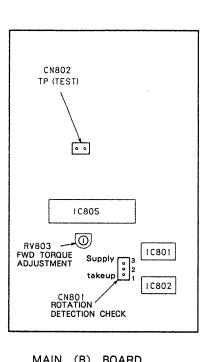
1. Mode: FF or REW



2. Waveform on the oscilloscope should be as shown below

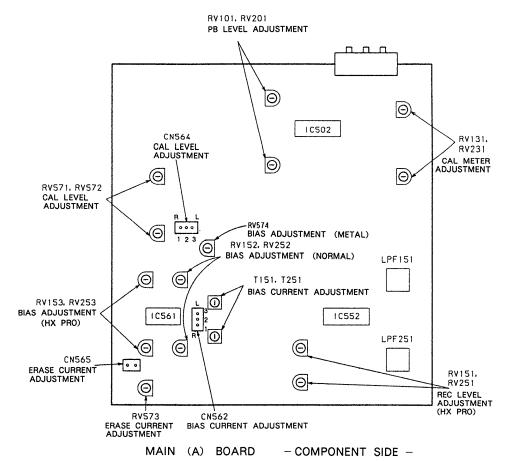


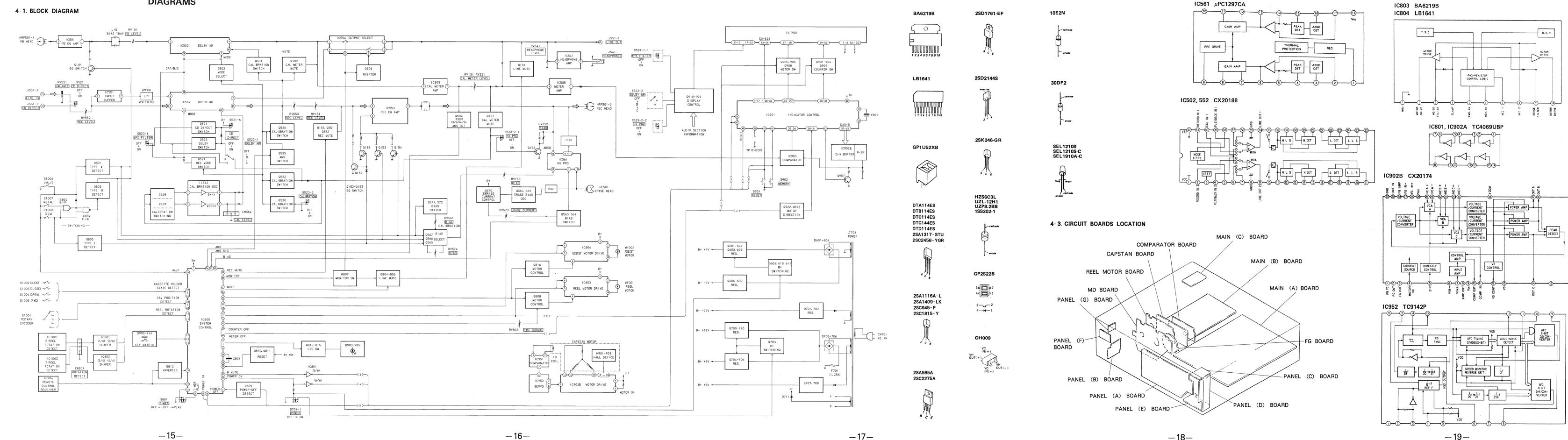
Adjustment Parts Location:



MAIN (B) BOARD

- COMPONENT SIDE -





4-2. SEMICONDUCTOR LEAD LAYOUTS

4-4. IC BLOCK DIAGRAMS

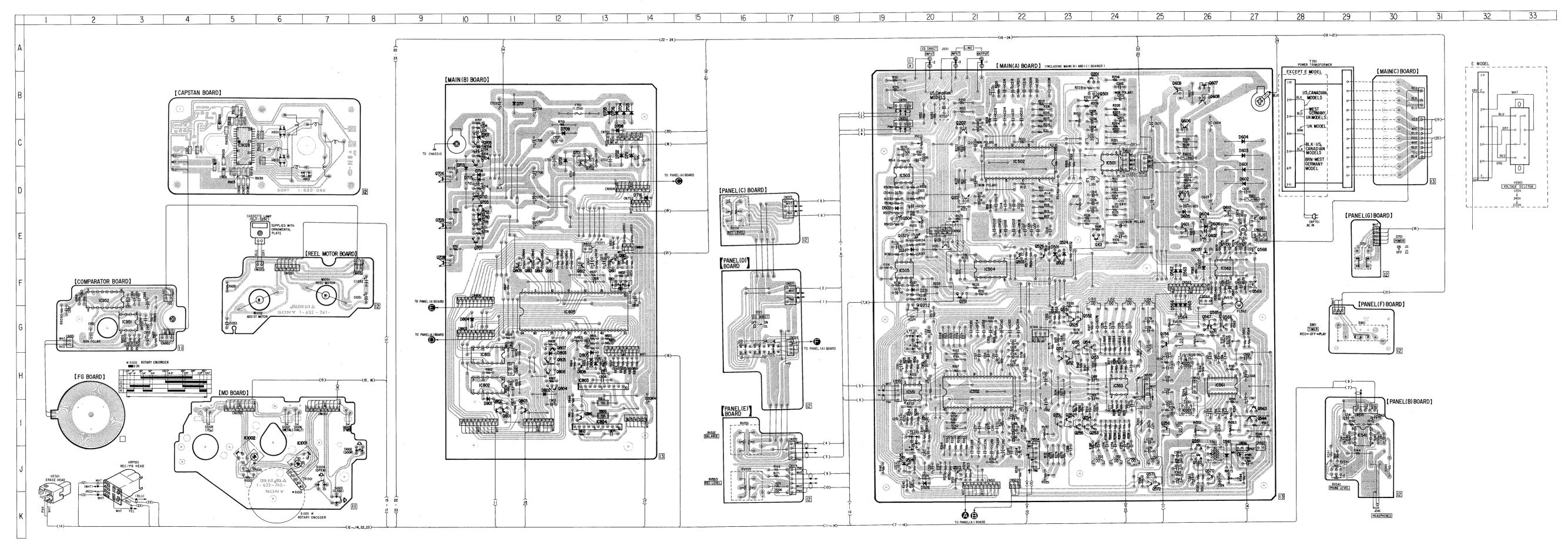
Semiconductor Locatio

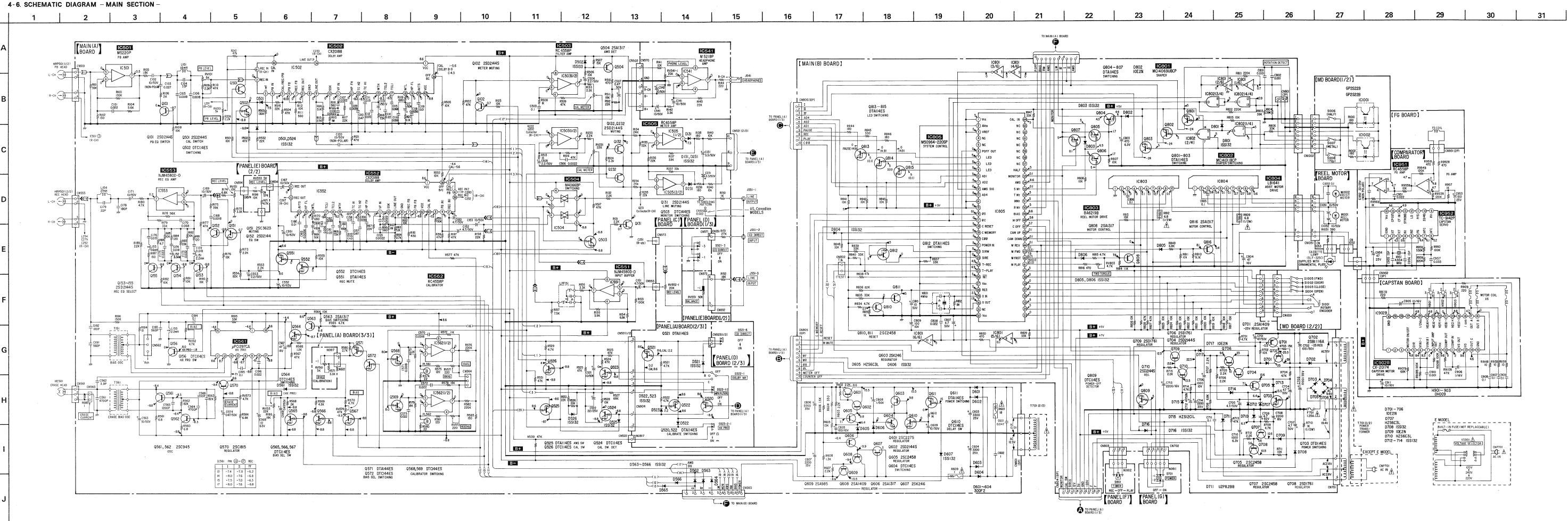
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
Ref. No. 0131 0231 0501 0502 0524 0525 0526 0561 0562 0563 0564 0565 0566 0601 0602 0603 0604 0605 0606 0607 0701 0702 0703 0704 0705 0706 0707 0708 0709 0710 0711 0712 0713 0714 0715 0716 0717 0801 0802 0803 0804 0805	E-19 F-20 E-23 D-19 E-23 J-19 J-20 J-26 F-25 G-25 G-25 G-25 G-27 C-27 C-27 C-27 C-27 C-27 E-26 F-26 C-13 B-14 B-13 B-13 C-10 C-13 E-10 D-10 D-10 D-14 B-11 I-10 H-12 H-12 G-10 H-13 H-13 C-24 D-22 D-19 F-21 F-19	Ref. No. IC541 IC551 IC552 IC553 IC561 IC562 IC803 IC804 IC802 IC803 IC902B IC951 IC902B IC911 IC1002 0101 0102 0131 0132 0151 0152 0153 0154 0155 0156 0201 0202 0231 0232 0251 0252 0253 0254 0255 0256 0501 0502 0503 0504 0523 0524 0525 0526 0551 0562	Location I-29 H-20 H-21 H-24 H-26 F-26 H-10 H-13 I-13 G-12 C-5 G-3 F-2 J-6 J-5 E-24 D-21 E-20 E-19 H-23 H-23 H-23 H-23 H-23 I-23 I-23 I-23 I-23 I-23 I-23 I-23 I	Ref. No. 0563 0564 0565 05666 0567 0568 0567 0568 0570 0571 0572 0601 0602 0603 0604 0605 0606 0607 0608 0609 0610 0701 0702 0703 0704 0705 0706 0707 0708 0709 0710 0801 0802 0803 0804 0805 0806 0807 0808 0809 0811 0812 0813 0814 0815 0816	I-27 I-27 G-26 G-26 G-26 G-26 E-27 F-27 J-25 J-25 E-25 E-26 E-26 E-26 D-25 C-25 B-26 B-26 B-27 C-12 C-10 D-10 C-10 C-10 C-10 C-10 C-10 I-11 I-11 I-11 H-12 H-12 H-12 H-12 F-11 F-13 F-13 F-12 F-11 F-13 F-12 I-13

Note on Mounting Diagram:

• o---: parts extracted from the component side.

4-5. PRINTED WIRING BOARDS - MAIN SECTION -





Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: $\mu \mu F$ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise
- Components for right channel have same values as for left channel. Reference numbers are coded from 201 to 299.
- • : nonflammable resistor.
- fusible resistor.

Note:

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note:

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

B+: B+ LineB-: B- Line

 adjustment for repair Voltage and waveforms are dc with respect to ground under no signal (detuned) conditions.

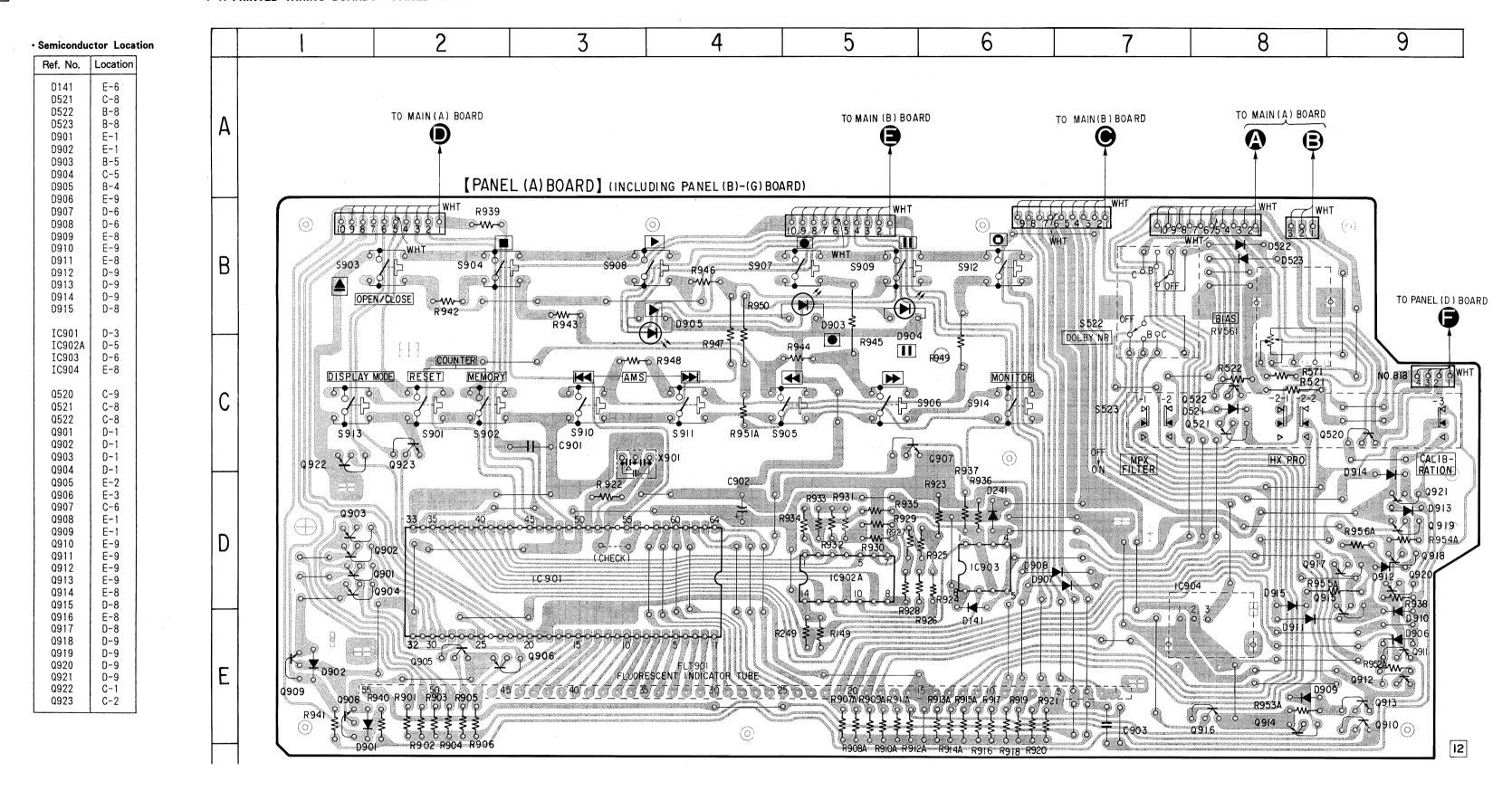
no mark: STOP (): PLAY

(()): REC

 Voltages are taken with a VOM (Input impedance 10 M Ω) Voltage variations may be noted due to normal production tolerances.

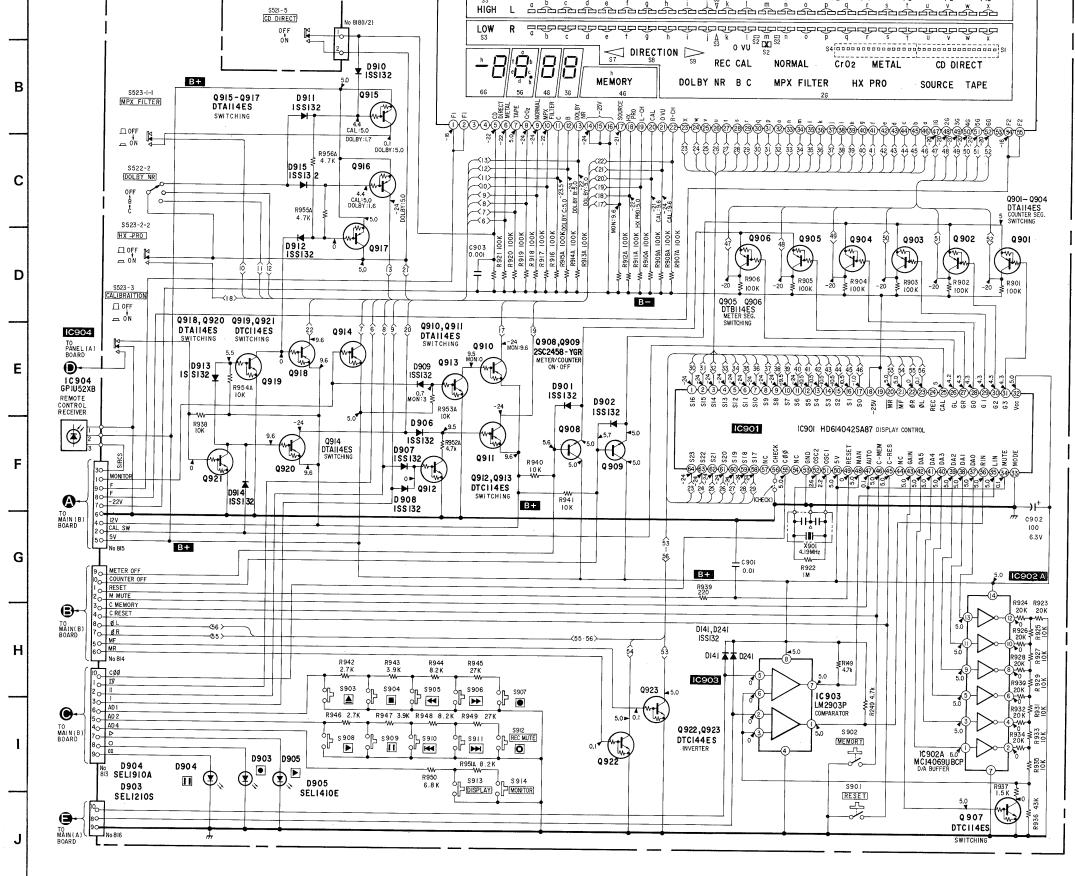
Signal path.

∑ : PB ∑> : REC



Note on Mounting Diagram:

• o---: parts extracted from the component side.



Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: $\mu \mu F$ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $^{1}\!/_{4}\,W$ or less unless otherwise specified.
- △ : internal component.
- B+: B+ Line
- B : B Line
- e : adjustment for repair
- Voltages are taken with a VOM (Input impedance 10 M Ω) Voltage variations may be noted due to normal production tolerances.

SECTION 5 EXPLODED VIEWS

NOTE:

18

3-350-459-01 X-3304-972-1

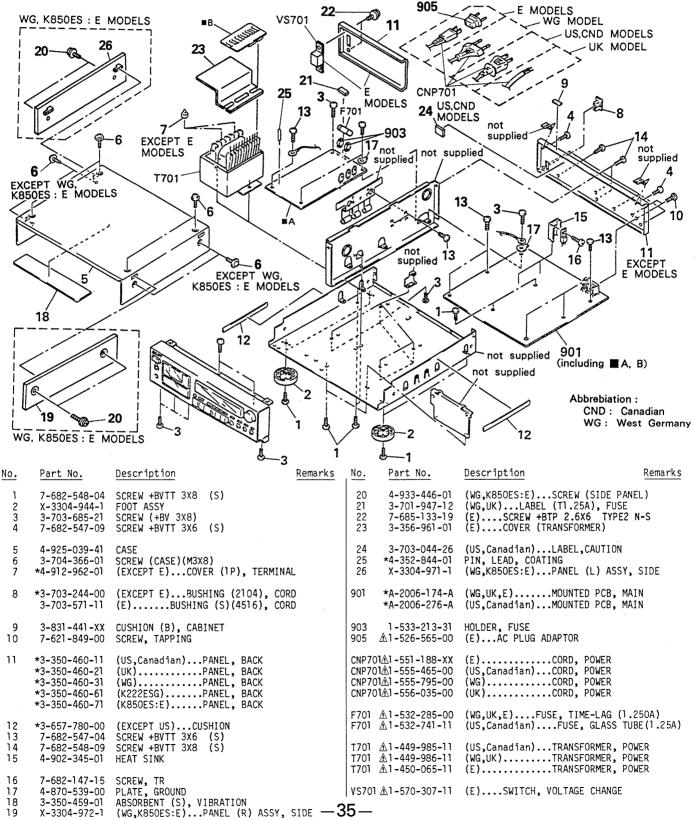
- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts Example: (RED) ... KNOB, BALANCE (WHITE) 1 1 Cabinet's Color Parts' Color

The components identified by mark \(\underbrack \) or dotted line with mark \(\underbrack \) are critical for safety. Replace only with part number specified.

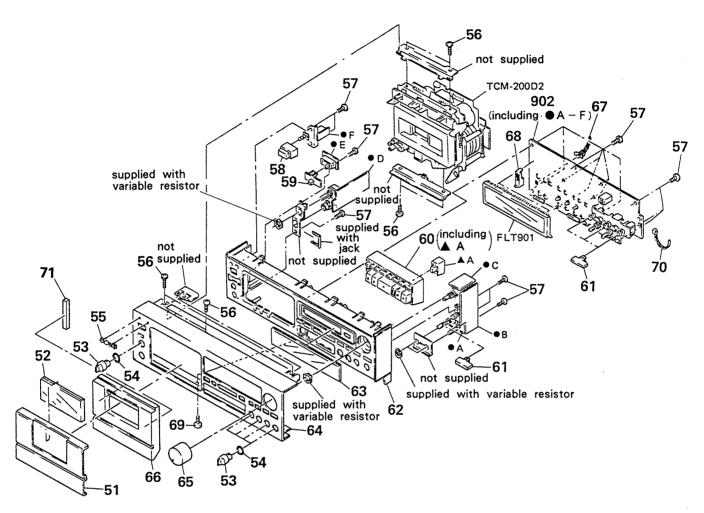
Les composants identifiés par une marque A sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifé.

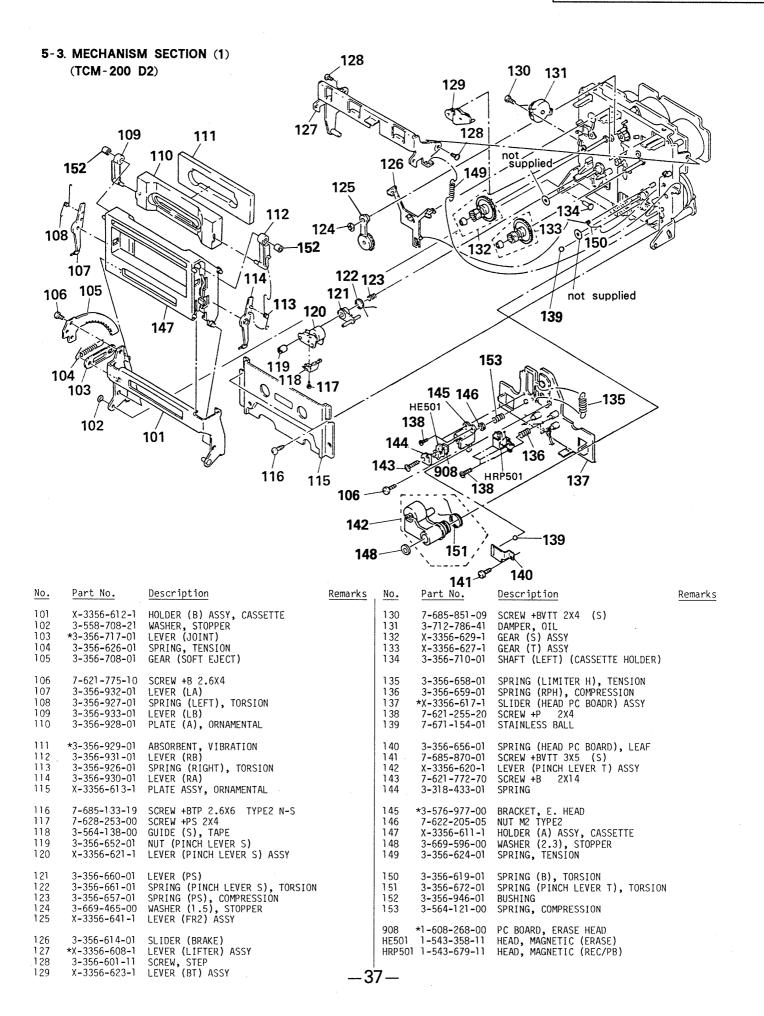
5-1. OVERALL SECTION



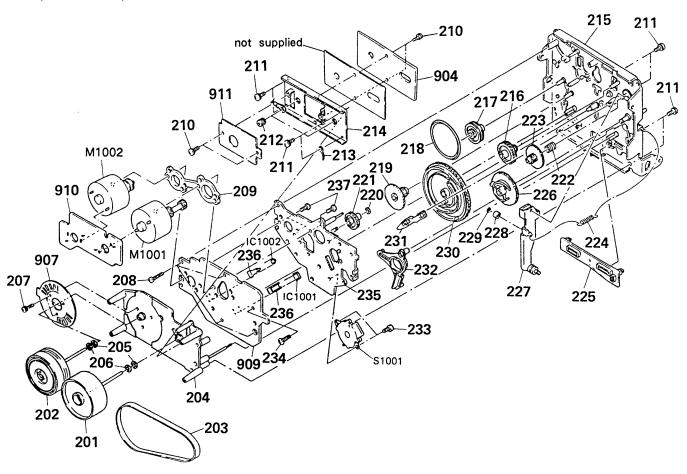
5-2. PANEL SECTION



No.	Part No.	<u>Description</u>	Remarks	No.	Part No.	<u>Description</u>	Remarks
51	3-356-907-01 3-356-907-11	(K222ESG)PLATE (C), ORNAMENTA (K850ES)PLATE (C), ORNAMENTA		63	3-356-909-01 3-356-909-11	(E)WINDOW (METER) (EXCEPT E)WINDOW (METER)	
52 53 54 55	3-356-902-01 3-350-495-01 3-356-935-01 4-908-848-01	WINDOW (C) KNOB (VOL) SPRING EMBLEM, SONY		64	3-356-914-11 3-356-914-21 3-356-914-31 3-356-914-51	(US,Canadian)PANEL, FRONT (WG,K850ES:E)PANEL, FRONT (UK)PANEL, FRONT (K222ESG)PANEL, FRONT	
56 57 58 59	7-682-547-04 4-928-635-01 3-354-912-01 3-307-538-21	SCREW +BVTT 3X6 (S) SCREW, +BV (2.6X8) TAPPING KNOB, POWER (POWER) KNOB, SWITCH, TIMER (TIMER)		65 66 67 68	X-3304-961-1 3-356-908-01 3-704-208-01 *3-356-924-01	KNOB (VOL) ASSY LID, CASSETTE BAND, BINDING HOLDER (FL)	
60 61 62	X-3304-963-1 3-350-496-01 3-356-915-01	BUTTON ASSY BUTTON PANEL (BASE)		69 70 71 902	7-685-133-19 3-701-748-00 9-911-840-XX *A-2006-175-A	SCREW +BTP 2.6X6 TYPE2 N-S CLAMP CUSHION MOUNTED PCB, PANEL	



5-4. MECHANISM SECTION (2) (TCM-200 D2)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
201 202 203 204 205		DECK (D1) ASSY		224 225 226 227 228 229	3-356-625-01 3-356-653-01 3-356-616-01 *X-3356-606-1 3-356-630-01 3-558-708-11		
206 207 208 209 210 211	7-628-254-10 3-355-801-01	WASHER (CAPSTAN) SCREW +PS 2.6X6 SCREW (BTP 2X18) SPACER (MOTOR) SCREW +BVTT 3X5 (S) SCREW +PS 3X8		230 231 232 233 234	3-356-654-01 3-356-617-01 3-356-613-01 7-621-772-20 3-356-707-01	GEAR (MODE CAM C) LEVER (SELECTION)	
212 213 214 215 216 217	3-489-073-00 *3-701-822-00 *X-3356-615-1 X-3356-622-1 3-356-703-01 3-356-607-01	BRACKET (THRUST RETAINER D)ASSY CHASSIS (C) ASSY, MECHANICAL		235 236 237 904 907 909	*X-3356-616-1 3-356-631-01 7-621-773-95 A-2006-154-A 1-632-779-11 *1-632-740-11	HOLDER (SENSOR) SCREW +B 2.6X6 MOUNTED PCB, CAPSTAN C.O.C	
218 219 220 221 222 223	3-356-603-01 3-356-606-01 3-669-465-00 3-356-702-01 3-356-605-01 3-356-609-01	GEAR (MODE) WASHER (1.5), STOPPER GEAR (COMMUNICATION B)		910 911 M1001 M1002 S1001	*1-632-741-11 *1-632-746-11 X-3356-638-1 X-3356-604-1 1-466-238-11	PC BOARD, REAL MOTOR PC BOARD, COMPARATOR MOTOR (REEL R) ASSY MOTOR (ASSIST) ASSY ENCODER, ROTARY	

SECTION 6 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS: MF: μF, PF: μμF.

RESISTORS

- All resistors are in ohms.F: nonflammable

• MMH: mH, UH: μH

SEMICONDUCTORS

In each case, U: μ, for example: UA...: μΑ..., UPA...: μPA..., UPC...: μPD...: μPD...

Abbrebiation:

CND: Canadian WG: West Germany

The components identified by mark \bigwedge or dotted line with mark \bigwedge are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque 🐧 sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description			1	Ref.No.	Part No.	Description			
901	*A-2006-174-A *A-2006-276-A	(WG,UK,E) (US,Canadian				C162 C163 C164	1-136-163-00 1-136-162-00 1-124-791-11	FILM FILM ELECT	0.068MF 0.056MF 1MF	5% 5% 20%	50V 50V 50V
902 903	*A-2006-175-A 1-533-213-31	MOUNTED PCB, HOLDER, FUSE				C165 C166	1-130-480-00	MYLAR FILM	0.0056MF 0.01MF	5% 5%	50V 50V
904 905 907	A-2006-154-A <u>1-526-565-00</u> 1-632-779-11	MOUNTED PCB, (E)AC PLU PC BOARD, FG	G ADAPTOR	.O.C		C167	1-126-059-11	ELECT MYLAR	10MF 0.0018MF	20% 5%	50V 50V
908 909	*1-608-268-00 *1-632-740-11	PC BOARD, ER	ASE HEAD			C169 C170	1-126-059-11 1-136-163-00	ELECT FILM	10MF 0.068MF	20% 5%	50V 50V
910 911	*1-632-741-11 *1-632-746-11	PC BOARD, RE PC BOARD, CO	AL MOTOR			C171 C172 C173	1-126-059-11 1-136-156-00 1-136-157-00	ELECT FILM FILM	10MF 0.018MF 0.022MF	20% 5% 5%	50V 50V 50V
C101 C102 C103	1-130-973-00 1-124-657-00 1-136-158-00	FILM ELECT FILM	0.022MF 10MF 0.027MF	5% 20% 5%	100V 50V 50V	C174 C175	1-136-156-00 1-136-157-00	FILM FILM	0.018MF 0.022MF	5% 5%	50V 50V
C104 C105	1-107-159-00 1-130-474-00	MICA MYLAR	33PF 0.0018MF	5% 5%	500V 50V	C176 C178	1-136-155-00	FILM	0.015MF 180PF	5% 5%	50V 500V
C106	1-130-474-00	MYLAR MYLAR	0.0018MF 0.0022MF	5% 5%	50 V	C179 C180	1-107-210-00 1-123-369-00	MI CA ELECT	22PF 4.7MF	5% 20%	500 V 50 V
C108 C109	1-130-475-00 1-130-478-00	MYLAR MYLAR	0.0022MF 0.0039MF	5% 5%	50 V 50 V	C191 C192 C193	1-136-803-11 1-107-169-00 1-130-468-00	FILM MICA MYLAR	560PF 100PF 560PF	5% 5% 5%	630V 500V 50V
C110 C111 C112	1-136-173-00 1-136-167-00 1-136-155-00	FILM FILM FILM	0.47MF 0.15MF 0.015MF	5% 5% 5%	50V 50V 50V	C194 C195	1-136-165-00 1-136-165-00	FILM FILM	0.1MF 0.1MF	5% 5%	50V 50V
C113	1-124-791-11 1-136-169-00	ELECT FILM	1MF 0.22MF	20% 5%	50V 50V	C196 C201	1-136-157-00 1-130-973-00	FILM FILM	0.022MF 0.022MF	5% 5%	50V 100V
C115	1-136-163-00	FILM FILM	0.068MF 0.056MF	5% 5%	50V 50V	C202 C203	1-124-657-00 1-136-158-00	ELECT FILM	10MF 0.027MF	20% 5%	50V 50V
C117 C118	1-124-791-11	ELECT MYLAR	1MF 0.0056MF	20% 5%	50V 50V	C204 C205 C206	1-107-159-00 1-130-474-00 1-130-474-00	MICA MYLAR MYLAR	33PF 0.0018MF 0.0018MF	5% 5% 5%	500 V 50 V 50 V
C119 C120 C131	1-136-153-00 1-124-657-00 1-123-382-00	FILM ELECT ELECT	0.01MF 10MF 3.3MF	5% 20% 20%	50V 50V 50V	C207 C208	1-130-475-00 1-130-475-00	MYLAR MYLAR	0.0022MF 0.0022MF	5% 5%	50V 50V
C141 C151 C152	1-126-059-11 1-123-369-00 1-123-369-00	ELECT ELECT ELECT	1 OMF 4.7MF 4.7MF	20% 20% 20%	50V 50V 50V	C209 C210	1-130-478-00 1-136-173-00 1-136-167-00	MYLAR FILM	0.0039MF 0.47MF	5% 5% 5%	50V 50V 50V
C152 C153 C154	1-126-059-11	ELECT MYLAR	10MF 0.0022MF	20% 20% 5%	50V 50V	C211 C212 C213	1-136-155-00	FILM FILM ELECT	0.15MF 0.015MF	5% 5% 20%	50V 50V
C155	1-130-475-00	MYLAR MYLAR	0.0022MF	5% 5%	50V 50V	C214 C215	1-136-169-00 1-136-163-00	FILM FILM	0.22MF 0.068MF	5% 5%	50V 50V
C157 C158	1-136-173-00 1-136-167-00	FILM FILM	0.47MF 0.15MF	5% 5%	50 V 50 V	C216 C217 C218	1-136-162-00 1-124-791-11 1-130-480-00	FILM ELECT MYLAR	0.056MF 1MF 0.0056MF	5% 20% 5%	50V 50V 50V
C159 C160 C161	1-136-155-00 1-124-791-11 1-136-169-00	FILM ELECT FILM	0.015MF 1MF 0.22MF	5% 20% 5%	50V 50V 50V	C219 C220 C231	1-136-153-00 1-124-657-00 1-123-382-00	FILM ELECT	0.01MF 10MF 3.3MF	5% 20% 20%	50V 50V 50V
					ŀ	(231	1-123-302-00	ELEGI	J. JPIF	2010	30 ¥

Ref.No.	Part No.	Description				Ref.No.	Part No.	Description			
C241	1-126-059-11	ELECT	1 OMF	20%	50V	C569	1-124-902-00	ELECT	0.47MF	20%	50V
C251	1-123-369-00	ELECT	4.7MF	20%	50V	C570	1-130-474-00	MYLAR	0.0018MF	5%	50V
C252	1-123-369-00	ELECT	4.7MF	20%	50V	C571	1-130-474-00	MYLAR	0.0018MF	5%	50V
C253	1-126-059-11	ELECT	10MF	20%	50V	C572	1-136-157-00	FILM	0.022MF	5%	50V
C254	1-130-475-00	MYLAR	0.0022MF	5%	50V	C573	1-136-157-00	FILM	0.022MF	5%	50V
C255	1-130-475-00	MYLAR	0.0022MF	5%	50V	C574	1-124-902-00	ELECT	0.47MF	20%	50V
C256	1-130-478-00	MYLAR	0.0039MF	5%	50V	C601	1-136-161-00	FILM	0.047MF	5%	50V
C257	1-136-173-00	FILM	0.47MF	5%	50V	C602	1-136-177-00	FILM	1MF	5%	50V
C258	1-136-167-00	FILM	0.15MF	5%	50V	C603	1-124-636-00	ELECT	3300MF	20%	25V
C259	1-136-155-00	FILM	0.015MF	5%	50V	C604	1-124-636-00	ELECT	3300MF	20%	25V
C260	1-124-791-11	ELECT	1MF	20%	50V	C605	1-126-101-11	ELECT	100MF	20%	10V
C261	1-136-169-00	FILM	0.22MF	5%	50V	C606	1-124-602-00	ELECT	2200MF	20%	35V
C262	1-136-163-00	FILM	0.068MF	5%	50V	C607	1-124-602-00	ELECT	2200MF	20%	35V
C263	1-136-162-00	FILM	0.056MF	5%	50V	C608	1-124-791-11	ELECT	1 MF	20%	50V
C264	1-124-791-11	ELECT	1MF	20%	50V	C609	1-123-875-11	ELECT	1 0MF	20%	50V
C265	1-130-480-00	MYLAR	0.0056MF	5%	50V	C701	1-124-910-11	ELECT	47MF	20%	50V
C266	1-136-153-00	FILM	0.01MF	5%	50V	C702	1-124-122-11	ELECT	100MF	20%	50V
C267	1-126-059-11	ELECT	10MF	20%	50V	C703	1-126-105-11	ELECT	1000MF	20%	35V
C268	1-130-474-00	MYLAR	0.0018MF	5%	50V	C704	1-124-927-11	ELECT	4.7MF	20%	50V
C269	1-126-059-11	ELECT	10MF	20%	50V	C705	1-124-927-11	ELECT	4.7MF	20%	50V
C270	1-136-163-00	FILM	0.068MF	5%	50V	C706	1-124-473-11	ELECT	1000MF	20%	10V
C271	1-126-059-11	ELECT	10MF	20%	50V	C707	1-124-927-11	ELECT	4.7MF	20%	50V
C272	1-136-156-00	FILM	0.018MF	5%	50V	C708	1-124-556-11	ELECT	2200MF	20%	16V
C273	1-136-157-00	FILM	0.022MF	5%	50V	C709	1-124-927-11	ELECT	4.7MF	20%	50V
C274	1-136-156-00	FILM	0.018MF	5%	50V	C710	1-124-471-00	ELECT	1000MF	20%	6.3V
C275	1-136-157-00	FILM	0.022MF	5%	50V	C711	1-136-165-00	FILM	0.1MF	5%	50V
C276	1-136-155-00	FILM	0.015MF	5%	50V	C712	1-124-927-11	ELECT	4.7MF	20%	50V
C278	1-109-619-00	MICA	180PF	5%	500V	C713	1-124-556-11	ELECT	2200MF	20%	16V
C279	1-107-210-00	MICA	22PF	5%	500V	C714	1-124-618-11	ELECT	2200MF	20%	35V
C280	1-123-369-00	ELECT	4.7MF	20%	50V	C801	1-162-294-31	CERAMIC	0.001MF	10%	50V
C291	1-136-803-11	FILM	560PF	5%	630V	C802	1-162-294-31	CERAMIC	0.001MF	10%	50V
C292	1-107-169-00	MICA	100PF	5%	500V	C803	1-124-472-11	ELECT	470MF	20%	6.3V
C293	1-130-468-00	MYLAR	560PF	5%	50V	C804	1-124-477-11	ELECT	47MF	20%	16V
C294	1-136-165-00	FILM	0.1MF	5%	50V	C805	1-164-159-11	CERAMIC	0.1MF	20%	50V
C295	1-136-165-00	FILM	0.1MF	5%	50V	C806	1-164-159-11	CERAMIC	0.1MF		50V
C296	1-136-157-00	FILM	0.022MF	5%	50V	C807	1-124-927-11	ELECT	4.7MF		50V
C503 C504 C505	1-136-165-00 1-124-925-11 1-124-925-11	FILM ELECT ELECT	0.1MF 2.2MF 2.2MF	5% 20% 20%	50V 50V 50V	C808 C809 C810	1-161-494-00 1-124-443-00 1-123-875-11	CERAMIC ELECT ELECT	0.022MF 100MF 10MF	20% 20%	25V 10V 50V
C506	1-130-475-00	MYLAR	0.0022MF	5%	50V	C901	1-161-379-00	CERAMIC	0.01MF	30%	16V
C507	1-124-902-00	ELECT	0.47MF	20%	50V	C902	1-126-177-11	ELECT	100MF	20%	6.3V
C521	1-123-875-11	ELECT	10MF	20%	50V	C903	1-162-294-31	CERAMIC	0.001MF	10%	50V
C522 C541 C542	1-126-233-11 1-126-059-11 1-126-059-11	ELECT ELECT ELECT	22MF 10MF 10MF	20% 20% 20%	25V 50V 50V	C905 C906 C907	1-124-779-00 1-135-091-00 1-163-077-00	ELECT CHIP TANTAL. CHIP CERAMIC CHIP		20% 10%	16V 16V 50V
C550 C551 C552	1-136-157-00 1-124-915-11 1-124-915-11	(US,Canadian ELECT ELECT)FILM 0.0 10MF 10MF	22MF 5 20% 20%	% 50V 63V 63V	C908 C909 C911	1-163-077-00 1-163-077-00 1-124-779-00	CERAMIC CHIP CERAMIC CHIP ELECT CHIP		20%	50V 50V 16V
C553	1-124-925-11	ELECT	2.2MF	20%	50V	C910	1-163-205-00	CERAMIC CHIP		10%	50 V
C561	1-136-559-11	FILM	0.0047MF	5%	630V	C952	1-124-282-00	ELECT(NONPOL		20%	25 V
C562	1-107-045-00	MICA	3.9PF	0.5PF	500V	C954	1-124-477-11	ELECT		20%	25 V
C563	1-123-875-11	ELECT	10MF	20%	50 V	C953	1-124-478-11	ELECT	100MF	20%	25V
C564	1-136-233-11	FILM	0.0047MF	5%	100V	C951	1-136-157-00	FILM	0.022MF	5%	50V
C565	1-136-228-11	FILM	0.0012MF	5%	100V	C957	1-136-159-00	FILM	0.033MF	5%	50V
C566	1-136-228-11	FILM	0.0012MF	5%	100V	C955	1-162-203-31	CERAMIC	15PF	5%	50V
C567	1-124-477-11	ELECT	47MF	20%	16V	C956	1-162-203-31	CERAMIC	15PF	5%	50V
C568	1-124-915-11	ELECT	10MF	20%	63V	C1051	1-123-875-11	ELECT	10MF	20%	50V

Ref.No. Part No.	Description		Ref.No.	Part No.	Description
C1052 1-123-875-11 C1053 1-164-159-11	ELECT 10MF 2 CERAMIC 0.1MF	20% 50V 50V	D561 D562 D563	8-719-107-94 8-719-107-94 8-719-107-94	DIODE 1SS202-1
CN501 *1-560-062-00 CN502 *1-564-508-11 CN521 *1-564-666-11	PIN, CONNECTOR 4P PLUG, CONNECTOR 5P PIN, CONNECTOR 10P		D564 D565 D566	8-719-107-94 8-719-107-94 8-719-107-94	DIODE 1SS202-1 DIODE 1SS202-1 DIODE 1SS202-1
CN522 *1-564-337-00 CN523 *1-564-338-00 CN551 *1-564-507-11			D601 D602 D603	8-719-230-02 8-719-230-02 8-719-230-02	
CN552 *1-564-507-11 CN553 *1-564-507-11 CN554 *1-564-509-11	PLUG, CONNECTOR 4P PLUG, CONNECTOR 4P PLUG, CONNECTOR 6P		D604 D605	8-719-230-02 8-719-933-41	DIODE 30DF2 DIODE HZS6C3L
CN555 *1-560-062-00 CN561 *1-560-061-00 CN562 *1-564-506-11			D606 D607 D701	8-719-107-94 8-719-200-77	
CN563 *1-564-666-11 CN564 *1-564-506-11 CN565 *1-564-505-11	PIN, CONNECTOR 10P PLUG, CONNECTOR 3P PLUG, CONNECTOR 2P		D702 D703 D704	8-719-200-77 8-719-200-77 8-719-200-77	DIODE 10E2N
CN570 *1-564-520-11 CN571 *1-564-519-11 CN572 *1-564-519-11	PLUG, CONNECTOR 5P PLUG, CONNECTOR 4P PLUG, CONNECTOR 4P		D705 D706 D707	8-719-200-77 8-719-200-77 8-719-933-41	
CN573 *1-564-519-11 CN574 *1-564-521-11	PLUG, CONNECTOR 4P PLUG, CONNECTOR 6P		D708 D709	8-719-107-94 8-719-200-77	DIODE 1SS202-1 DIODE 10E2N
CN601 *1-560-061-00 CN701 *1-564-511-11 CN702 *1-564-339-00	PIN, CONNECTOR 3P PLUG, CONNECTOR 8P PIN, CONNECTOR 5P		D710 D711 D712	8-719-107-94	DIODE HZS6C3L DIODE UZP-8.2BB DIODE 1SS202-1
CN801 *1-564-506-11 CN802 *1-564-505-11	PLUG, CONNECTOR 3P PLUG, CONNECTOR 2P		D713 D714	8-719-107-94 8-719-107-94	DIODE 1SS202-1
CN803 *1-564-337-00 CN804 *1-506-503-11	PIN, CONNECTOR 3P PIN, CONNECTOR 9P		D715 D716 D717	8-719-001-79 8-719-107-94 8-719-200-77	DIODE 1SS202-1
CN805 *1-564-666-11 CN806 *1-564-666-11 CN951 *1-564-718-11	PIN, CONNECTOR 10P PIN, CONNECTOR 10P PIN, CONNECTOR (SMALL TYPE	E) 2P	D801 D802 D803	8-719-107-94 8-719-200-77 8-719-107-94	DIODE 1SS202-1 DIODE 10E2N DIODE 1SS202-1
CN952 *1-564-518-11 CN1001 1-506-615-11 CN1002 1-564-501-11	PLUG, CONNECTOR 3P PIN, CONNECTOR 9P PIN, CONNECTOR 8P		D804 D805 D806	8-719-107-94	DIODE 1SS202-1 DIODE 1SS202-1 DIODE 1SS202-1
CN1051*1-564-499-11 CN1052*1-564-718-11 CN1053*1-564-718-11	PIN, CONNECTOR (SMALL TYPE		D901 D902 D903	8-719-107-94 8-719-107-94	DIODE 1SS202-1 DIODE 1SS202-1 LED SEL1210S-C
CNP701≜1-551-188-XX CNP701≜1-555-465-00 CNP701≜1-555-795-00 CNP701≜1-556-035-00	(E)CORD, POWE (US,Canadian)CORD, POWE (WG)CORD, POWE (UK)CORD, POWE	ER ER	D904 D905 D906	8-719-302-79	LED SEL1910A-C LED SEL1210S
D131 8-719-107-94 D141 8-719-107-94 D231 8-719-107-94	DIODE 1SS202-1		D907 D908 D909	8-719-107-94 8-719-107-94 8-719-107-94	DIODE 1SS202-1 DIODE 1SS202-1 DIODE 1SS202-1
D241 8-719-107-94 D501 8-719-107-94 D502 8-719-107-94	DIODE 1SS202-1		D910 D911 D912	8-719-107-94 8-719-107-94 8-719-107-94	DIODE 1SS202-1 DIODE 1SS202-1 DIODE 1SS202-1
D521 8-719-107-94 D522 8-719-107-94 D523 8-719-107-94	DIODE 1SS202-1		D913 D914 D915	8-719-107-94 8-719-107-94 8-719-107-94	DIODE 1SS202-1 DIODE 1SS202-1 DIODE 1SS202-1
D524 8-719-107-94 D525 8-719-107-94 D526 8-719-107-94	DIODE 1SS202-1			<u></u>	(WG,UK,E)FUSE, TIME-LAG (1.250A) (US,Canadian)FUSE, GLASS TUBE (1.25A)
			FLT901	1-519-560-11	INDICATOR TUBE, FLUORESCENT

Note:
The components identified by mark \(\frac{1}{2} \) or dotted line with mark \(\frac{1}{2} \) are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque A sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
H901 H902 H903	8-719-403-79 8-719-403-79 8-719-403-79	HOLE ELEMENT OHOO9 HOLE ELEMENT OHOO9 HOLE ELEMENT OHOO9	Q101 Q102 Q131	8-729-922-37 8-729-922-37 8-729-922-37	
HE501	1-543-358-11	HEAD, MAGNETIC (ERASE)	Q132 Q151	8-729-922-37 8-729-141-30	TRANSISTOR 2SD2144S TRANSISTOR 2SC3623A-LK
HRP501	1-543-679-11	HEAD, MAGNETIC (REC/PB)	Q152	8-729-922-37	TRANSISTOR 2SD2144S
I C502	8-759-602-01 8-752-018-80 8-759-945-58	IC M5220P IC CX20188 IC RC4558P	Q153 Q154 Q155	8-729-922-37 8-729-922-37 8-729-922-37	TRANSISTOR 2SD2144S TRANSISTOR 2SD2144S TRANSISTOR 2SD2144S
	8-759-208-14 8-759-945-58 8-759-601-02	IC TC4066BPHB IC RC4558P IC M5218P	Q1 56 Q201 Q202	8-729-900-80 8-729-922-37 8-729-922-37	TRANSISTOR DTC114ES TRANSISTOR 2SD2144S TRANSISTOR 2SD2144S
	8-759-710-59 8-752-018-80 8-759-710-59	IC NJM4580D-D IC CX20188 IC NJM4580D-D	Q231 Q232 Q251	8-729-922-37 8-729-922-37 8-729-141-30	TRANSISTOR 2SD2144S TRANSISTOR 2SD2144S TRANSISTOR 2SC3623A-LK
IC562	8-759-106-56 8-759-945-58 8-759-240-69	IC UPC1297CA IC RC4558P IC TC4069UBP	Q252 Q253 Q254	8-729-922-37 8-729-922-37 8-729-922-37	TRANSISTOR 2SD2144S TRANSISTOR 2SD2144S TRANSISTOR 2SD2144S
10803	8-759-140-11 8-759-973-95 8-759-822-09	IC UPD4011BC IC BA6219B IC LB1641	Q255 Q256 Q501	8-729-922-37 8-729-900-80 8-729-922-37	TRANSISTOR 2SD2144S TRANSISTOR DTC114ES TRANSISTOR 2SD2144S
I C901	8-759-302-98	IC M50964-222SP IC HD614042SA87	Q502 Q503 Q504	8-729-900-80 8-729-900-89 8-729-821-04	TRANSISTOR DTC114ES TRANSISTOR DTC144ES TRANSISTOR 2SA1317-STU
I C902B	8-759-240-69 8-752-017-40 8-759-984-97		Q520 Q521 Q522	8-729-900-61 8-729-900-61 8-729-900-61	TRANSISTOR DTA114ES TRANSISTOR DTA114ES TRANSISTOR DTA114ES
I C904 I C951	8-749-920-83 8-759-995-08	IC GP1U52XB IC MC4558 IC TC9142P	Q523 Q524 Q525	8-729-900-80 8-729-900-80 8-729-900-61	TRANSISTOR DTC114ES TRANSISTOR DTC114ES TRANSISTOR DTA114ES
IC1001	8-749-920-97 8-749-920-97	PHOTO REFLECTOR GP2S22B PHOTO REFLECTOR GP2S22B	Q526	8-729-900-80	TRANSISTOR DTC114ES
J541	1-507-796-71	JACK (HEADPHONES)	Q551 Q552	8-729-900-61 8-729-900-80	TRANSISTOR DTA114ES TRANSISTOR DTC114ES
J551 JR901	1-565-320-61	JACK, PIN 6P (LINE/CD DIRECT)	Q561	8-729-194-57	TRANSISTOR 2SC945-P
JR902	1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE 0 5% 1/8W METAL GLAZE 0 5% 1/8W METAL GLAZE 0 5% 1/8W	Q562 Q563	8-729-194-57 8-729-821-04	TRANSISTOR 2SC945-P TRANSISTOR 2SA1317-STU
JR904	1-216-296-00	METAL GLAZE 0 5% 1/8W METAL GLAZE 0 5% 1/8W	Q564 Q565 Q566	8-729-900-80 8-729-900-80 8-729-900-80	TRANSISTOR DTC114ES TRANSISTOR DTC114ES TRANSISTOR DTC114ES
L101 L151 L152	1-408-927-11 1-408-916-11 1-408-918-11	INDUCTOR 18MMH INDUCTOR 2.2MMH INDUCTOR 3.3MMH	Q567 Q568 Q569	8-729-900-80 8-729-900-89 8-729-900-89	TRANSISTOR DTC114ES TRANSISTOR DTC144ES TRANSISTOR DTC144ES
L153 L154 L155	1-408-921-11 1-408-929-00 1-410-767-11	INDUCTOR 5.6MMH INDUCTOR 27MMH INDUCTOR 2.2MMH	Q570 Q571 Q572	8-729-281-52 8-729-900-65 8-729-900-89	TRANSISTOR 2SC1815-Y TRANSISTOR DTA144ES TRANSISTOR DTC144ES
L201 L251 L252	1-408-927-11 1-408-916-11 1-408-918-11	INDUCTOR 18MMH INDUCTOR 2.2MMH INDUCTOR 3.3MMH	Q601 Q602 Q603	8-729-107-53 8-729-922-37 8-729-224-62	TRANSISTOR 2SC2275A TRANSISTOR 2SD2144S TRANSISTOR 2SK246-GR
L253 L254 L255	1-408-921-11 1-408-929-00 1-410-767-11	INDUCTOR 5.6MMH INDUCTOR 27MMH INDUCTOR 2.2MMH	Q604 Q605 Q606	8-729-900-80 8-729-230-45 8-729-821-04	TRANSISTOR DTC114ES TRANSISTOR 2SC2458-YGR TRANSISTOR 2SA1317-STU
	1-236-087-11 1-236-087-11	FILTER, LOW PASS FILTER, LOW PASS	Q607 Q608 Q609	8-729-224-62 8-729-141-32 8-729-190-53	TRANSISTOR 2SK246-GR TRANSISTOR 2SA1409-LK TRANSISTOR 2SA985
M1001 M1002	X-3356-638-1 X-3356-604-1	MOTOR (REEL R) ASSY MOTOR (ASSIST) ASSY	Q610	8-729-900-80	TRANSISTOR DTC114ES
PL561 PL562	1-518-471-31 1-518-471-31	LAMP, PILOT LAMP, PILOT	Q611 Q701	8-729-900-61 8-729-141-32	TRANSISTOR 2SA1348-TP TRANSISTOR 2SA1409-LK

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description			
Q702	8-729-140-04	TRANSISTOR 2SB1116A-L	R110	1-249-465-11	CARBON	47K	5%	1/4W
Q703	8-729-920-24	TRANSISTOR DTD114ES	R111	1-247-710-11	CARBON	560	5%	1/4W
Q704	8-729-922-37	TRANSISTOR 2SD2144S	R112	1-247-725-11	CARBON	10K	5%	1/4W
Q705	8-729-230-45	TRANSISTOR 2SC2458-YGR	R113	1-247-718-11	CARBON	2.7K	5%	1/4W
Q706	8-729-920-98	TRANSISTOR 2SD1761-EF	R114	1-247-148-00	CARBON	5.1K	5%	1/4W
Q707	8-729-230-45	TRANSISTOR 2SC2458-YGR	R115	1-246-545-00	CARBON	1M	5%	1/4W
Q708	8-729-920-98	TRANSISTOR 2SD1761-EF TRANSISTOR 2SD1761-EF TRANSISTOR 2SD2144S	R116	1-247-710-11	CARBON	560	5%	1/4W
Q709	8-729-920-98		R117	1-249-462-11	CARBON	22K	5%	1/4W
Q710	8-729-922-37		R118	1-247-852-11	CARBON	7.5K	5%	1/4W
Q801	8-729-900-61	TRANSISTOR DTAll4ES	R119	1-249-415-11	CARBON	680	5%	1/4W
Q802	8-729-900-61	TRANSISTOR DTAll4ES	R120	1-247-854-11	CARBON	9.1K	5%	1/4W
Q803	8-729-900-61	TRANSISTOR DTAll4ES	R121	1-249-465-11	CARBON	47K	5%	1/4W
Q804	8-729-900-61	TRANSISTOR DTAll4ES	R122	1-249-465-11	CARBON	47K	5%	1/4W
Q805	8-729-900-61	TRANSISTOR DTAll4ES	R123	1-249-429-11	CARBON	10K	5%	1/4W
Q806	8-729-900-61	TRANSISTOR DTAll4ES	R124	1-249-421-11	CARBON	2.2K	5%	1/4W
Q807	8-729-900-61	TRANSISTOR DTAll4ES TRANSISTOR 2SAl317-STU TRANSISTOR DTCll4ES	R131	1-249-421-11	CARBON	2.2K	5%	1/4W
Q808	8-729-821-04		R132	1-247-717-11	CARBON	2.2K	5%	1/4W
Q809	8-729-900-80		R133	1-249-421-11	CARBON	2.2K	5%	1/4W
Q810	8-729-230-45	TRANSISTOR 2SC2458-YGR	R134	1-215-454-00	METAL	24K	1%	1/6W
Q811	8-729-230-45	TRANSISTOR 2SC2458-YGR	R135	1-249-462-11	CARBON	22K	5%	1/4W
Q812	8-729-900-61	TRANSISTOR DTA114ES	R136	1-215-453-00	METAL	22K	1%	1/6W
Q813	8-729-900-61	TRANSISTOR DTAll4ES TRANSISTOR DTAll4ES TRANSISTOR DTAll4ES	R137	1-215-457-00	METAL	33K	1 %	1/6W
Q814	8-729-900-61		R138	1-249-408-11	CARBON	180	5%	1/4W
Q815	8-729-900-61		R140	1-249-429-11	CARBON	10K	5%	1/4W
Q816	8-729-821-04	TRANSISTOR 2SA1317-STU	R141	1-259-452-11	CARBON	10K	5%	1/6W
Q901	8-729-900-61	TRANSISTOR DTA114ES	R142	1-259-440-11	CARBON	3.3K	5%	1/6W
Q902	8-729-900-61	TRANSISTOR DTA114ES	R143	1-259-460-11	CARBON	22K	5%	1/6W
Q903	8-729-900-61	TRANSISTOR DTAll4ES TRANSISTOR DTAll4ES TRANSISTOR DTBll4ES	R144	1-247-704-11	CARBON	220	5%	1/4W
Q904	8-729-900-61		R149	1-249-425-11	CARBON	4.7K	5%	1/4W
Q905	8-729-920-26		R150	1-247-713-11	CARBON	1K	5%	1/4W
Q906	8-729-920-26	TRANSISTOR DTB114ES	R151	1-249-586-11	CARBON	27K	5%	1/4W
Q907	8-729-900-80	TRANSISTOR DTC114ES	R152	1-249-461-11	CARBON	18K	5%	1/4W
Q908	8-729-230-45	TRANSISTOR 2SC2458-YGR	R153	1-249-469-11	CARBON	100K	5%	1/4W
Q909	8-729-230-45	TRANSISTOR 2SC2458-YGR	R154	1-259-448-11	CARBON	6.8K	5%	1/6W
Q910	8-729-900-61	TRANSISTOR DTA114ES	R155	1-259-442-11	CARBON	3.9K	5%	1/6W
Q911	8-729-900-61	TRANSISTOR DTA114ES	R156	1-259-440-11	CARBON	3.3K	5%	1/6W
Q912	8-729-900-80	TRANSISTOR DTC114ES TRANSISTOR DTC114ES TRANSISTOR DTA114ES	R157	1-259-449-11	CARBON	7.5K	5%	1/6W
Q913	8-729-900-80		R158	1-249-462-11	CARBON	22K	5%	1/4W
Q914	8-729-900-61		R159	1-259-468-11	CARBON	47K	5%	1/6W
Q915	8-729-900-61	TRANSISTOR DTAll4ES TRANSISTOR DTAll4ES TRANSISTOR DTAll4ES	R161	1-249-543-11	CARBON	430	5%	1/4W
Q916	8-729-900-61		R162	1-247-725-11	CARBON	10K	5%	1/4W
Q917	8-729-900-61		R163	1-247-148-00	CARBON	5.1K	5%	1/4W
Q918	8-729-900-61	TRANSISTOR DTAll4ES TRANSISTOR DTCll4ES TRANSISTOR DTAll4ES	R164	1-247-718-11	CARBON	2.7K	5%	1/4W
Q919	8-729-900-80		R165	1-246-545-00	CARBON	1M	5%	1/4W
Q920	8-729-900-61		R166	1-247-710-11	CARBON	560	5%	1/4W
Q921	8-729-900-80	TRANSISTOR DTC114ES TRANSISTOR DTC144ES TRANSISTOR DTC144ES	R167	1-249-462-11	CARBON	22K	5%	1/4W
Q922	8-729-900-89		R168	1-247-852-11	CARBON	7.5K	5%	1/4W
Q923	8-729-900-89		R169	1-247-854-11	CARBON	9.1K	5%	1/4W
R001	1-247-752-11	CARBON 1K 5% 1/2W CARBON 39K 5% 1/4W CARBON 150 5% 1/4W	R170	1-249-415-11	CARBON	680	5%	1/4W
R101	1-249-590-11		R171	1-247-721-11	CARBON	4.7K	5%	1/4W
R102	1-247-702-11		R172	1-247-719-11	CARBON	3.3K	5%	1/4W
R103	1-249-603-11	CARBON 130K 5% 1/4W	R173	1-249-421-11	CARBON	2.2K	5%	1/4W
R104	1-247-722-11	CARBON 5.6K 5% 1/4W	R174	1-247-723-11	CARBON	6.8K	5%	1/4W
R105	1-247-716-11	CARBON 1.8K 5% 1/4W	R175	1-249-590-11	CARBON	39K	5%	1/4W
R106	1-247-138-00	CARBON 2K 5% 1/4W CARBON 10K 5% 1/4W CARBON 2.2K 5% 1/4W	R176	1-249-429-11	CARBON	10K	5%	1/4W
R108	1-249-429-11		R177	1-259-468-11	CARBON	47K	5%	1/6W
R109	1-247-717-11		R178	1-259-470-11	CARBON	56K	5%	1/6W

Ref.No.	Part No.	Description				Ref.No.	Part No.	Description			
R179	1-259-464-11	CARBON	33K	5%	1/6W	R251	1-249-586-11	CARBON	27K	5%	1/4W
R180	1-247-721-11	CARBON	4.7K	5%	1/4W	R252	1-249-461-11	CARBON	18K	5%	1/4W
R181	1-259-406-11	CARBON	120	5%	1/6W	R253	1-249-469-11	CARBON	100K	5%	1/4W
R182	1-259-452-11	CARBON	10K	5%	1/6W	R254	1-259-448-11	CARBON	6.8K	5%	1/6W
R183	1-259-442-11	CARBON	3.9K	5%	1/6W	R255	1-259-442-11	CARBON	3.9K	5%	1/6W
R184	1-259-406-11	CARBON	120	5%	1/6W	R256	1-259-440-11	CARBON	3.3K	5%	1/6W
R185	1-259-452-11	CARBON	10K	5%	1/6W	R257	1-259-449-11	CARBON	7.5K	5%	1/6W
R186	1-259-444-11	CARBON	4.7K	5%	1/6W	R258	1-249-462-11	CARBON	22K	5%	1/4W
R187	1-249-782-11	CARBON	150	5%	1/6W	R259	1-259-468-11	CARBON	47K	5%	1/6W
R189	1-259-436-11	CARBON	2.2K	5%	1/6W	R261	1-249-543-11	CARBON	430	5%	1/4W
R190	1-249-429-11	CARBON	10K	5%	1/4W	R262	1-247-725-11	CARBON	10K	5%	1/4W
R191	1-249-429-11	CARBON	10K	5%	1/4W	R263	1-247-148-00	CARBON	5.1K	5%	1/4W
R192	1-249-429-11	CARBON	10K	5%	1/4W	R264	1-247-718-11	CARBON	2.7K	5%	1/4W
R193	1-249-432-11	CARBON	18K	5%	1/4W	R265	1-246-545-00	CARBON	1 M	5%	1/4W
R194	1-249-393-11	CARBON	10	5%	1/4W	R266	1-247-710-11	CARBON	560	5%	1/4W
R195	1-249-435-11	CARBON	33K	5%	1/4W	R267	1-249-462-11	CARBON	22K	5%	1/4W
R196	1-259-480-11	CARBON	150K	5%	1/6W	R268	1-247-852-11	CARBON	7.5K	5%	1/4W
R197	1-249-465-11	CARBON	47K	5%	1/4W	R269	1-247-854-11	CARBON	9.1K	5%	1/4W
R198	1-247-725-11	CARBON	10K	5%	1/4W	R270	1-249-415-11	CARBON	680	5%	1/4W
R201	1-249-590-11	CARBON	39K	5%	1/4W	R271	1-247-721-11	CARBON	4.7K	5%	1/4W
R202	1-247-702-11	CARBON	150	5%	1/4W	R272	1-247-719-11	CARBON	3.3K	5%	1/4W
R203	1-249-603-11	CARBON	130K	5%	1/4W	R273	1-249-421-11	CARBON	2.2K	5%	1/4W
R204	1-247-722-11	CARBON	5.6K	5%	1/4W	R274	1-247-723-11	CARBON	6.8K	5%	1/4W
R205	1-247-716-11	CARBON	1.8K	5%	1/4W	R275	1-249-590-11	CARBON	39K	5%	1/4W
R206	1-247-138-00	CARBON	2K	5%	1/4W	R276	1-249-429-11	CARBON	1 0K	5%	1/4W
R208	1-249-429-11	CARBON	10K	5%	1/4W	R277	1-259-468-11	CARBON	47K	5%	1/6W
R209	1-247-717-11	CARBON	2.2K	5%	1/4W	R278	1-259-470-11	CARBON	56K	5%	1/6W
R210	1-249-465-11	CARBON	47K	5%	1/4W	R279	1-259-464-11	CARBON	33K	5%	1/6W
R211	1-247-710-11	CARBON	560	5%	1/4W	R280	1-247-721-11	CARBON	4.7K	5%	1/4W
R212	1-247-725-11	CARBON	10K	5%	1/4W	R281	1-259-406-11	CARBON	120	5%	1/6W
R213	1-247-718-11	CARBON	2.7K	5%	1/4W	R282	1-259-452-11	CARBON	10K	5%	1/6W
R214	1-247-148-00	CARBON	5.1K	5%	1/4W	R283	1-259-442-11	CARBON	3.9K	5%	1/6W
R215	1-246-545-00	CARBON	1M	5%	1/4W	R284	1-259-406-11	CARBON	120	5%	1/6W
R216	1-247-710-11	CARBON	560	5%	1/4W	R285	1-259-452-11	CARBON	10K	5%	1/6W
R217	1-249-462-11	CARBON	22K	5%	1/4W	R286	1-259-444-11	CARBON	4.7K	5%	1/6W
R218	1-247-852-11	CARBON	7.5K	5%	1/4W	R287	1-249-782-11	CARBON	150	5%	1/6W
R219	1-249-415-11	CARBON	680	5%	1/4W	R289	1-259-436-11	CARBON	2.2K	5%	1/6W
R220	1-247-854-11	CARBON	9.1K	5%	1/4W	R290	1-249-429-11	CARBON	10K	5%	1/4W
R221	1-249-465-11	CARBON	47K	5%	1/4W	R291	1-249-429-11	CARBON	10K	5%	1/4W
R222	1-249-465-11	CARBON	47K	5%	1/4W	R292	1-249-429-11	CARBON	10K	5%	1/4W
R223	1-249-429-11	CARBON	10K	5%	1/4W	R293	1-249-432-11	CARBON	18K	5%	1/4W
R224	1-249-421-11	CARBON	2.2K	5%	1/4W	R294	1-249-393-11	CARBON	10	5%	1/4W
R231	1-249-421-11	CARBON	2.2K	5%	1/4W	R295	1-249-435-11	CARBON	33K	5%	1/4W
R232	1-247-717-11	CARBON	2.2K	5%	1/4W	R296	1-259-480-11	CARBON	150K	5%	1/6W
R233	1-249-421-11	CARBON	2.2K	5%	1/4W	R297	1-249-465-11	CARBON	47K	5%	1/4W
R234	1-215-454-00	METAL	24K	1%	1/6W	R298	1-247-725-11	CARBON	10K	5%	1/4W
R235	1-249-462-11	CARBON	22K	5%	1/4W	R501	1-249-429-11	CARBON	10K	5%	1/4W
R236	1-215-453-00	METAL	22K	1%	1/6W	R502	1-249-437-11	CARBON	47K	5%	1/4W
R237	1-215-457-00	METAL	33K	1%	1/6W	R503	1-215-472-00	METAL	130K	1 %	1/6W
R238	1-249-408-11	CARBON	180	5%	1/4W	R504	1-249-437-11	CARBON	47K	5%	1/4W
R240	1-249-429-11	CARBON	10K	5%	1/4W	R505	1-249-429-11	CARBON	10K	5%	1/4W
R241	1-259-452-11	CARBON	10K	5%	1/6W	R506	1-249-429-11	CARBON	1 0K	5%	1/4W
R242	1-259-440-11	CARBON	3.3K	5%	1/6W	R507	1-249-431-11	CARBON	1 5K	5%	1/4W
R243	1-259-460-11	CARBON	22K	5%	1/6W	R508	1-249-417-11	CARBON	1 K	5%	1/4W
R244	1-247-704-11	CARBON	220	5%	1/4W	R509	1-249-437-11	CARBON	47K	5%	1/4W
R249	1-249-425-11	CARBON	4.7K	5%	1/4W	R510	1-249-413-11	CARBON	470	5%	1/4W
R250	1-247-713-11	CARBON	1K	5%	1/4W	R511	1-249-432-11	CARBON	18K	5%	1/4W

BST2 -2-29-4-33-11 CARRON 1,3K 55 1/4W R613 1-2-9-4-37-11 CARRON 1,3K 55 1/4W R614 1-2-9-4-37-11 CARRON 1,3K 55 1/4W R614 1-2-9-4-37-11 CARRON 1,3K 55 1/4W R614 1-2-9-4-37-11 CARRON 1,3K 55 1/4W R615 1-2-9-4-37-11 CARRON 1,3K 55 1/4W R615 1-2-9-4-37-11 CARRON 1,3K 55 1/4W R715 1-2-9-4-37-11 CARRON 2,2K 55 1/4W R726 1-2-9-4-37-11 CARRON 1,3K 55 1/4W R715 1-2-9-4-37-11 CARRON 1,3K 1/4W R715 1-2-9-4-37-	Ref.No.	Part No.	Description				Ref.No.	Part No.	Description			
BST 1-299-437-11 CARBON 47K 55 1/4W R702 1-249-429-11 CARBON 10K 55 1/4W R703 1-249-429-11 CARBON 10K 55 1/4W R703 1-249-429-11 CARBON 47K 55 1/4W R703 1-249-429-11 CARBON 2.2K 55 1/4W R703 1-249-429-11 CARBON 2.7K 55 1/4W R703 1-249-429-11 CARBON 4.7K 55 1/4W R711 1-249-429-11 CARBON 4.7K 55 1/4W R712 1-249-429-11 CARBON 4.7K 55 1/4W R713 1-249-429-11 CARBON 4.7K 55 1/4W R713 1-249-429-11 CARBON 10K 55 1/4W R713 1-249-429-11 CARBON 10K 55 1/4W R713 1-249-429-11 CARBON 4.7K 55 1/4W R713 1-249-429-11 CARBON 4.7K 55 1/4W R714 1-249-429-11 CARBON 4.7K 55 1/4W R715	R513	1-249-417-11	CARBON	١ĸ	5%	1/4W	R609 Z	1-217-637-00	FUSIBLE	1	5%	1/4W F
R252 1-294-437-11 CARBON 47K 5% 1/4W R705 1-249-421-11 CARBON 2,2K 5% 1/4W R705 1-249-421-11 CARBON 2,2K 5% 1/4W R705 1-249-421-11 CARBON 2,2K 5% 1/4W R707 1-249-427-11 CARBON 2,2K 5% 1/4W R708 1-249-427-11 CARBON 2,2K 5% 1/4W R708 1-249-427-11 CARBON 4,7K 5% 1/4W R709 1-249-425-11 CARBON 4,7K 5% 1/4W R709 1-249-425-11 CARBON 4,7K 5% 1/4W R710 1-247-752-11 CARBON 4,7K 5% 1/4W R710 1-249-425-11 CARBON 4,7K 5% 1/4W R710 1-249-425-11 CARBON 4,7K 5% 1/4W R711 1-269-425-11 CARBON 10K 5% 1/4W R711 1-269-425-11 CARBON 2,2K 5% 1/4W R711 1-269-425-11 CARBON 2,2K 5% 1/4W R714 1-249-425-11 CARBON 4,7K 5% 1/4W R714 1-249-425-11 CARBON 39K 5% 1/4W R71	R517	1-249-437-11	CARBON	47K	5%	1/4W	R702	1-249-429-11	CARBON	10K	5%	1/4W
R256 1-249-429-11 CARBON 638 5% 1/4W R708 1-249-429-11 CARBON 6.48 6% 1/4W R709 1-249-429-11 CARBON 6.48 6% 1/4W R710 1-247-752-11 CARBON 6.78 6% 1/4W R710 1-247-752-11 CARBON 1/4W R711 1-249-429-11 CARBON 1/4W R713 1-249-429-11 CARBON 1/4W R713 1-249-429-11 CARBON 4/7K 5% 1/4W R714 1-249-429-11 CARBON 4/7K 5% 1/4W R715 1-249-429-11 CARBON 2/2K 5% 1/4W R715 1-249-429-11 CARBON 3/2K 5% 1/4W R715 1-249-429-11 CARBON 1/2K 5% 1/4W R715 1-249-429-11 CARBON	R523	1-249-437-11	CARBON	47K	5%	1/4W	R705	1-249-421-11	CARBON	2.2K	5%	1/4W
RSS0 1-249-425-11 CARBON 4.7% 5% 1/4W R711 1-249-429-11 CARBON 0.5% 1/4W RSS0 1-249-437-11 CARBON 2.2% 5% 1/4W RSS0 1-249-429-11 CARBON 39% 5% 1/4W RSS0 1-249-429-11 CARBON 30% 5% 1/4W RSS0 1-249-429-11 CA	R526	1-249-435-11	CARBON	33K	5%	1/4W	R708	1-249-427-11	CARBON	6.8K	5%	1/4W
R552 1-249-433-11 CARBON 22K 5k 1/4M R714 1-249-425-11 CARBON 2.7K 5k 1/4M R515 1-249-425-11 CARBON 10K 5k 1/4M R515 1-249-425-11 CARBON 2.7K 5k 1/4M R515 1-249-425-11 CARBON 10K 5k 1/4M R515 1-249-435-11 CARBON 2.7K 5k 1/4M R515 1-249-435-11 CARBON 39K 5k 1/4M R515 1-249-435-11 CARBON 39K 5k 1/4M R515 1-249-331-11 CARBON 10K 5k 1/4M R515 1-249-331-11 CARBON 6.8 5k 1/4M R515 1-249-425-11 CARBON 33K 5k 1/4M R515 1-249-331-11 CARBON 6.8 5k 1/4M R515 1-249-425-11 CARBON 33K 5k 1/4M R515 1-249-404-11 CARBON 82K 5k 1/4M R515 1-249-425-11 CARBON 10K 5k 1/4M R515 1-249-429-11 CARBON 82K 5k 1/4M R515 1-249-429-11 CARBON 82K 5k 1/4M R515 1-249-429-11 CARBON 10K 5k 1/4M R516 1-249-429-11 CARBON	R529	1-249-425-11	CARBON	4.7K	5%	1/4W	R711	1-249-429-11	CARBON	1 OK	5%	1/4W
R552 1-249-429-11 CARBON 10K 5% 1/4W R802 1-249-436-11 CARBON 220K 5% 1/4W R802 1-249-436-11 CARBON 39K 5% 1/4W R554 1-249-440-11 CARBON 82K 5% 1/4W R803 1-249-436-11 CARBON 39K 5% 1/4W R556 1-249-39-11 CARBON 6.8 5% 1/4W R805 1-249-429-11 CARBON 35K 5% 1/4W R560 1-249-391-11 CARBON 6.8 5% 1/4W R806 1-249-429-11 CARBON 35K 5% 1/4W R562 1-249-40-11 CARBON 82K 5% 1/4W R809 1-249-429-11 CARBON 10K 5% 1/4W R664 1-249-429-11 CARBON 10K 5% 1/4W R810 1-249-49-411 CARBON 6.8 5% 1/4W R810 1-249-49-911 CARBON 10K 5% 1/4W<	R532	1-249-433-11	CARBON	22K	5%	1/4W	R714	1-249-425-11	CARBON	4.7K	5%	1/4W
R\$55 1-249-429-11 CARBON 10K 5% 1/4W R805 1-249-435-11 CARBON 10K 5% 1/4W R\$60 1-249-391-11 CARBON 6.8 5% 1/4W R806 1-249-429-11 CARBON 33K 5% 1/4W R\$62 1-249-391-11 CARBON 82K 5% 1/4W R809 1-249-429-11 CARBON 10K 5% 1/4W R\$65 1-249-440-11 CARBON 82K 5% 1/4W R809 1-249-429-11 CARBON 10K 5% 1/4W R\$65 1-249-429-11 CARBON 10K 5% 1/4W R810 1-247-854-11 CARBON 9,1K 5% 1/4W R\$66 1-249-429-11 CARBON 4,7K 5% 1/4W R811 1-249-429-11 CARBON 10K 5% 1/4W R\$60 1-249-437-11 CARBON 27K 5% 1/4W R810 1-249-429-11 CARBON 10K 5%<	R552	1-249-429-11	CARBON	1 OK	5%	1/4W	R802	1-247-887-00	CARBON	220K	5%	1/4W
R562 1-249-440-11 CARBON B2K 5% 1/4W R809 A1-249-429-11 CARBON 6.8 5% 1/4W R810 1-247-834-10 CARBON 10K 5% 1/4W R811 1-249-429-11 CARBON 10K 5% 1/4W R812 A1-249-429-11 CARBON 10K 5% 1/4W R813 1-249-429-11 CARBON 10K 5% 1/4W R814 1-249-429-11 CARBON 10K 5% 1/4W R815 1-249-439-11 CARBON 10K 5% 1/4W R814 1-249-429-11 CARBON 10K 5% 1/4W R815 1-249-429-11 CARBON 10K 5% 1/4W R815 1-249-429-11 CARBON 10K 5% 1/4W R815 1-249-429-11 CARBON 10K 5% 1/4W R817 1-249-429-11 CARBON 10K 5% 1/4W R817 1-249-429-11 CARBON 10K 5% 1/4W R819 1-249-429-11 CARBON 10K 5% 1/4W R820 1-249-429-11 CARBON 10K 5% 1/4W R821 1-249-429-11 CARBON	R555	1-249-429-11	CARBON	1 OK	5%	1/4W	R805	1-249-429-11	CARBON	10K	5%	1/4W
R565 1-249-425-11 CARBON 4.7K 5% 1/4W R812 1-249-429-11 CARBON 10K 5% 1/4W R566 1-249-418-11 CARBON 4.7K 5% 1/4W R813 1-249-429-11 CARBON 10K 5% 1/4W R568 1-247-838-00 CARBON 2K 5% 1/4W R813 1-249-429-11 CARBON 10K 5% 1/4W R869 1-247-846-11 CARBON 4.7K 5% 1/4W R815 1-249-429-11 CARBON 4.7K 5% 1/4W R8570 1-249-425-11 CARBON 4.7K 5% 1/4W R815 1-249-425-11 CARBON 4.7K 5% 1/4W R8571 1-249-425-11 CARBON 3.3K 5% 1/4W R815 1-249-429-11 CARBON 4.7K 5% 1/4W R817 1-249-429-11 CARBON 4.7K 5% 1/4W R817 1-249-429-11 CARBON 4.7K 5% 1/4W R817 1-249-429-11 CARBON 10K 5% 1/4W R818 1-249-429-11 CARBON 10K 5% 1/4W R8573 1-249-406-11 CARBON 120 5% 1/4W R820 1-249-429-11 CARBON 10K 5% 1/4W R8575 1-249-406-11 CARBON 120 5% 1/4W R821 1-249-429-11 CARBON 10K 5% 1/4W R8577 1-249-432-11 CARBON 120 5% 1/4W R821 1-249-429-11 CARBON 10K 5% 1/4W R8577 1-249-432-11 CARBON 120 5% 1/4W R822 1-249-429-11 CARBON 10K 5% 1/4W R858 1-249-432-11 CARBON 120 5% 1/4W R824 1-249-429-11 CARBON 10K 5% 1/4W R858 1-249-331-11 CARBON 120 5% 1/4W R827 1-249-429-11 CARBON 10K 5% 1/4W R858 1-249-429-11 CARBON 120 5% 1/4W R827 1-249-429-11 CARBON 10K 5% 1/4W R858 1-249-429-11 CARBON 120 5% 1/4W R827 1-249-429-11 CARBON 10K 5% 1/4W R858 1-249-429-11 CARBON 120 5% 1/4W R828 1-249-429-11 CARBON 10K 5% 1/4W R858 1-249-429-11 CARBON 120 5% 1/4W R838 1-249-429-11 CARBON 10K 5% 1/4W R858 1-249-429-11 CARBON 10K 5% 1/4W R858 1-249-429-11 CARBON 10K 5% 1/4W R858 1-249-429-11	R562	1-249-440-11	CARBON	82K	5%	1/4W	R808	1-249-429-11	CARBON	10K	5%	1/4W
R568 1-247-838-00 CARBON 2K 5% 1/4W R815 1-249-425-11 CARBON 4.7K 5% 1/4W R571 1-249-425-11 CARBON 4.7K 5% 1/4W R815 1-249-425-11 CARBON 4.7K 5% 1/4W R571 1-249-425-11 CARBON 10K 5% 1/4W R572 1-247-856-00 CARBON 11K 5% 1/4W R818 1-249-429-11 CARBON 10K 5% 1/4W R573 1-247-856-00 CARBON 11K 5% 1/4W R818 1-249-429-11 CARBON 10K 5% 1/4W R574 1-249-397-11 CARBON 120 5% 1/4W R820 1-249-429-11 CARBON 10K 5% 1/4W R575 1-249-406-11 CARBON 120 5% 1/4W R820 1-249-429-11 CARBON 10K 5% 1/4W R577 1-249-406-11 CARBON 120 5% 1/4W R821 1-249-429-11 CARBON 10K 5% 1/4W R577 1-249-432-11 CARBON 47K 5% 1/4W R821 1-249-429-11 CARBON 10K 5% 1/4W R577 1-249-432-11 CARBON 47K 5% 1/4W R821 1-249-429-11 CARBON 10K 5% 1/4W R578 1-249-432-11 CARBON 18K 5% 1/4W R823 1-249-429-11 CARBON 10K 5% 1/4W R579 1-249-432-11 CARBON 18K 5% 1/4W R824 1-249-429-11 CARBON 10K 5% 1/4W R580 1-249-397-11 CARBON 18K 5% 1/4W R824 1-249-429-11 CARBON 10K 5% 1/4W R580 1-249-397-11 CARBON 120 5% 1/4W R826 1-249-429-11 CARBON 10K 5% 1/4W R581 1-249-406-11 CARBON 120 5% 1/4W R826 1-249-429-11 CARBON 10K 5% 1/4W R581 1-249-406-11 CARBON 120 5% 1/4W R827 1-249-429-11 CARBON 10K 5% 1/4W R581 1-249-406-11 CARBON 120 5% 1/4W R827 1-249-425-11 CARBON 10K 5% 1/4W R581 1-249-406-11 CARBON 120 5% 1/4W R827 1-249-425-11 CARBON 10K 5% 1/4W R581 1-249-406-11 CARBON 120 5% 1/4W R827 1-249-425-11 CARBON 10K 5% 1/4W R581 1-249-427-11 CARBON 120 5% 1/4W R581 1-249-427-11 CARBON 120 5% 1/4W R581 1-249-425-11 CARBON 10K 5% 1/4W R581 1-249-427-11 CARBON 120 5% 1/4W R581 1-249-425-11 CARBON 10K 5% 1/4W R581 1-249-427-11 CARBON 120 5% 1/4W R581 1-249-425-11 CARBON 10K 5% 1/4W R581 1-249-427-11 CARBON 120 5% 1/4W R581 1-249-425-11 CARBON 10K 5% 1/4W R581 1-249-427-11 CARBON 120 5% 1/4W R581 1-249-425-11 CARBON 10K 5% 1/4W R581 1-249-425-11 CARBON 33K 5% 1/4W R581 1-24	R565	1-249-425-11	CARBON	4.7K	5%	1/4W	R811	1-249-429-11	CARBON	10K	5%	1/4W
R571 1-249-423-11 CARBON 3.3K 5% 1/4W R818 1-249-429-11 CARBON 10K 5% 1/4W R572 1-247-856-00 CARBON 11K 5% 1/4W R818 1-249-429-11 CARBON 10K 5% 1/4W R573 1-247-856-00 CARBON 11K 5% 1/4W R574 1-249-397-11 CARBON 22 5% 1/4W R820 1-249-429-11 CARBON 10K 5% 1/4W R574 1-249-397-11 CARBON 120 5% 1/4W R820 1-249-429-11 CARBON 10K 5% 1/4W R575 1-249-406-11 CARBON 120 5% 1/4W R821 1-249-429-11 CARBON 10K 5% 1/4W R577 1-249-437-11 CARBON 47K 5% 1/4W R578 1-249-432-11 CARBON 47K 5% 1/4W R578 1-249-432-11 CARBON 18K 5% 1/4W R578 1-249-432-11 CARBON 18K 5% 1/4W R5820 1-249-429-11 CARBON 10K 5% 1/4W R598 1-249-432-11 CARBON 18K 5% 1/4W R581 1-249-429-11 CARBON 10K 5% 1/4W R598 1-249-432-11 CARBON 10K 5% 1/4W R598 1-249-432-11 CARBON 10K 5% 1/4W R598 1-249-432-11 CARBON 10K 5% 1/4W R581 1-249-429-11 CARBON 10K 5% 1/4W R581 1-249-406-11 CARBON 120 5% 1/4W R826 1-249-429-11 CARBON 10K 5% 1/4W R581 1-249-406-11 CARBON 120 5% 1/4W R827 1-249-425-11 CARBON 4.7K 5% 1/4W R583 1-249-407-11 CARBON 150 5% 1/4W R828 1-249-425-11 CARBON 4.7K 5% 1/4W R583 1-249-427-11 CARBON 150 5% 1/4W R586 1-249-427-11 CARBON 150 5% 1/4W R583 1-249-417-11 CARBON 150 5% 1/4W R586 1-249-427-11 CARBON 150 5% 1/4W R586 1-249-435-11 CARBON 150 5% 1/4W R586 1-249-556-11 CARBON 150 5% 1/4W R586 1-2	R568	1-247-838-00	CARBON	2K	5%	1/4W	R814	1-249-429-11	CARBON	10K	5%	1/4W
R574 1-249-397-11 CARBON 22 5% 1/4W R820 1-249-429-11 CARBON 10K 5% 1/4W R575 1-249-406-11 CARBON 120 5% 1/4W R821 1-249-429-11 CARBON 10K 5% 1/4W R575 1-249-437-11 CARBON 220K 5% 1/4W R821 1-249-429-11 CARBON 10K 5% 1/4W R577 1-249-437-11 CARBON 47K 5% 1/4W R823 1-249-429-11 CARBON 10K 5% 1/4W R578 1-249-432-11 CARBON 18K 5% 1/4W R823 1-249-429-11 CARBON 10K 5% 1/4W R578 1-249-432-11 CARBON 18K 5% 1/4W R824 1-249-429-11 CARBON 10K 5% 1/4W R580 1-249-397-11 CARBON 22 5% 1/4W R580 1-249-397-11 CARBON 22 5% 1/4W R580 1-249-30-11 CARBON 22 5% 1/4W R580 1-249-406-11 CARBON 22 5% 1/4W R581 1-249-406-11 CARBON 120 5% 1/4W R827 1-249-429-11 CARBON 4.7K 5% 1/4W R583 1-249-407-11 CARBON 150 5% 1/4W R583 1-249-407-11 CARBON 150 5% 1/4W R583 1-249-427-11 CARBON 150 5% 1/4W R584 1-249-427-11 CARBON 150 5% 1/4W R584 1-249-427-11 CARBON 6.8K 5% 1/4W R585 1-249-427-11 CARBON 6.8K 5% 1/4W R586 1-249-427-11 CARBON 1 150 5% 1/4W R586 1-249-427-11 CARBON 2.7K 5% 1/4W R586 1-249-427-11 CARBON 2.2K 5% 1/4W R586 1-249-427-11 CARBON 2.2K 5% 1/4W R586 1-249-427-11 CARBON 33K 5% 1/4W R604 1-247-706-11 CARBON 2.2K 5% 1/4W R586 1-249-425-11 CARBON 33K 5% 1/4W R604 1-247-706-11 CARBON 33C 5% 1/4W R586 1-249-435-11 CARBON 33K 5% 1/4W R606 1-249-556-11 CARBON 33C 5% 1/4W R587 1-249-435-11 CARBON 33K 5% 1/4W R606 1-249-556-11 CARBON 1.5K 5% 1/4W R587 1-249-435-11 CARBON 33K 5% 1/4W R606 1-249-556-11 CARBON 1.5K 5% 1/4W R587 1-249-435-11 CARBON 33K 5% 1/4W R606 1-249-556-11 CARBON 1.5K 5% 1/4W R589 1-249-435-11 CARBON 33K 5% 1/4W R606 1-249-556-11 CARBON 1.5K 5% 1/4W R589 1-249-435-11 CARBON 33K 5% 1/4W R606 1-249-556-11 CARBON 1.5K 5% 1/4W R589 1-249-435-11 CARBON 33K 5% 1/4W R606 1-249-556-11 CARBON 1.5K 5% 1/4W R589 1-249-435-11 CARBON 33K 5% 1/4W R606 1-249-556-11 CARBON 1.5K 5	R571	1-249-423-11	CARBON	3.3K	5%	1/4W	R817	1-249-429-11	CARBON	10K	5%	1/4W
R577 1-249-437-11 CARBON 47K 5% 1/4W R823 1-249-429-11 CARBON 10K 5% 1/4W R878 1-249-432-11 CARBON 18K 5% 1/4W R824 1-249-429-11 CARBON 10K 5% 1/4W R578 1-249-432-11 CARBON 18K 5% 1/4W R824 1-249-429-11 CARBON 10K 5% 1/4W R580 1-249-397-11 CARBON 22 5% 1/4W R826 1-249-429-11 CARBON 10K 5% 1/4W R581 1-249-406-11 CARBON 120 5% 1/4W R826 1-249-425-11 CARBON 4.7K 5% 1/4W R583 1-249-407-11 CARBON 150 5% 1/4W R827 1-249-425-11 CARBON 4.7K 5% 1/4W R583 1-249-407-11 CARBON 150 5% 1/4W R829 1-249-435-11 CARBON 33K 5% 1/4W R584 1-249-427-11 CARBON 6.8K 5% 1/4W R830 1-249-433-11 CARBON 470 5% 1/4W R586 1-249-422-11 CARBON 2.7K 5% 1/4W R830 1-249-413-11 CARBON 1 5% 1/4W R586 1-249-422-11 CARBON 2.7K 5% 1/4W R833 1-249-417-11 CARBON 1 5% 1/4W R601 \(\text{\te	R574	1-249-397-11	CARBON	22	5%	1/4W	R820	1-249-429-11	CARBON	1 OK	5%	1/4W
R580 1-249-397-11 CARBON 22 5% 1/4W R826 1-249-425-11 CARBON 4.7K 5% 1/4W R581 1-249-406-11 CARBON 120 5% 1/4W R827 1-249-425-11 CARBON 4.7K 5% 1/4W R583 1-249-407-11 CARBON 150 5% 1/4W R828 1-249-425-11 CARBON 4.7K 5% 1/4W R583 1-249-407-11 CARBON 150 5% 1/4W R829 1-249-435-11 CARBON 33K 5% 1/4W R584 1-249-427-11 CARBON 6.8K 5% 1/4W R830 1-249-413-11 CARBON 470 5% 1/4W R586 1-249-381-11 CARBON 2.7K 5% 1/4W R830 1-249-417-11 CARBON 1K 5% 1/4W R601 ∆1-212-863-00 FUSIBLE 18 5% 1/4W F R834 1-249-425-11 CARBON 4.7K 5% 1/4W R603 1-247-717-11 CARBON 2.2K 5% 1/4W R836 1-249-425-11 CARBON 33K 5% 1/4W R603 1-247-717-11 CARBON 2.2K 5% 1/4W R836 1-249-435-11 CARBON 33K 5% 1/4W R603 1-247-717-11 CARBON 2.2K 5% 1/4W R836 1-249-435-11 CARBON 33K 5% 1/4W R604 1-247-706-11 CARBON 33O 5% 1/4W R837 1-249-435-11 CARBON 33K 5% 1/4W R838 1-249-435-11 CARBON 33K 5% 1/4W R839 1-249-435-11 CARBON 33K 5% 1/4W	R577	1-249-437-11	CARBON	47K	5%	1/4W	R823	1-249-429-11	CARBON	1 OK	5%	1/4W
R583 1-249-407-11 CARBON 150 5% 1/4W R829 1-249-435-11 CARBON 33K 5% 1/4W R584 1-249-427-11 CARBON 6.8K 5% 1/4W R830 1-249-413-11 CARBON 470 5% 1/4W R586 1-249-381-11 CARBON 2.7K 5% 1/4W R833 1-249-417-11 CARBON 1K 5% 1/4W R601 \(\Delta 1-249-383-00 \) FUSIBLE 18 5% 1/4W F R834 1-249-425-11 CARBON 4.7K 5% 1/4W R603 1-247-717-11 CARBON 2.2K 5% 1/4W R833 1-249-435-11 CARBON 33K 5% 1/4W R603 1-247-717-11 CARBON 2.2K 5% 1/4W R836 1-249-435-11 CARBON 82K 5% 1/4W R604 1-247-706-11 CARBON 33O 5% 1/4W R837 1-249-435-11 CARBON 33K 5% 1/4W R805 1-249-556-11 CARBON 1.5K 5% 1/4W R838 1-249-435-11 CARBON 33K 5% 1/4W R806 1-249-556-11 CARBON 1.5K 5% 1/4W R839 1-249-435-11 CARBON 33K 5% 1/4W R806 1-249-556-11 CARBON 1.5K 5% 1/4W R839 1-249-435-11 CARBON 33K 5% 1/4W R806 1-249-556-11 CARBON 1.5K 5% 1/4W R839 1-249-435-11 CARBON 33K 5% 1/4W R806 1-249-556-11 CARBON 1.5K 5% 1/4W R809 1-249-435-11 CARBON 33K 5% 1/4W R809 1-249-435-11 CARBON	R580	1-249-397-11	CARBON	22	5 %	1/4W	R826	1-249-429-11	CARBON	1 OK	5%	1/4W
R586 1-249-422-11 CARBON 2.7K 5% 1/4W R833 1-249-417-11 CARBON 1K 5% 1/4W R801 \(\Delta 1-212-863-00 \) FUSIBLE 18 5% 1/4W F R834 1-249-425-11 CARBON 4.7K 5% 1/4W R602 1-247-717-11 CARBON 2.2K 5% 1/4W R835 1-249-435-11 CARBON 33K 5% 1/4W R803 1-247-717-11 CARBON 2.2K 5% 1/4W R836 1-249-440-11 CARBON 82K 5% 1/4W R804 1-247-706-11 CARBON 33O 5% 1/4W R837 1-249-435-11 CARBON 33K 5% 1/4W R805 1-249-435-11 CARBON 1.5K 5% 1/4W R838 1-249-435-11 CARBON 33K 5% 1/4W R805 1-249-556-11 CARBON 1.5K 5% 1/4W R839 1-249-435-11 CARBON 33K 5% 1/4W	R583	1-249-407-11	CARBON	150	5%	1/4W	R829	1-249-435-11	CARBON	33K	5%	1/4W
R603 1-247-717-11 CARBON 2.2K 5% 1/4W R836 1-249-440-11 CARBON 82K 5% 1/4W R804 1-247-706-11 CARBON 330 5% 1/4W R837 1-249-435-11 CARBON 33K 5% 1/4W R805 1-249-556-11 CARBON 1.5K 5% 1/4W R838 1-249-437-11 CARBON 47K 5% 1/4W R806 1-249-556-11 CARBON 1.5K 5% 1/4W R839 1-249-435-11 CARBON 33K 5% 1/4W R839 1-249-435-11 CARBON 33K 5% 1/4W	R586	1-249-422-11	CARBON	2.7K	5%	1/4W	R833	1-249-417-11	CARBON	1K	5%	1/4W
R606 1-249-556-11 CARBON 1.5K 5% 1/4W R839 1-249-435-11 CARBON 33K 5% 1/4W	R603	1-247-717-11	CARBON	2.2K	5%	1/4W	R836	1-249-440-11	CARBON	82K	5%	1/4W
	R606	1-249-556-11	CARBON	1.5K	5%	1/4W	R839	1-249-435-11	CARBON			

Note:
The components identified by mark A or dotted line with mark Replace only with part number specified.

Les composants identifiés par une marque A sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description				Ref.No.	Part No.	Description			
R841 R842 R843	1-249-429-11 1-249-429-11 1-249-429-11	CARBON CARBON CARBON	10K 10K 10K	5% 5% 5%	1/4W 1/4W 1/4W	R937 R938 R939	1-215-425-00 1-249-429-11 1-249-409-11	METAL CARBON CARBON	1.5K 10K 220	1 % 5% 5%	1/6W 1/4W 1/4W
R844 R845 R846	1-249-408-11 1-249-411-11 1-249-408-11	CARBON CARBON CARBON	180 330 180	5% 5% 5%	1/4W 1/4W 1/4W	R940 R941 R942	1-249-429-11 1-249-429-11 1-249-422-11	CARBON CARBON CARBON	10K 10K 2.7K	5% 5% 5%	1/4W 1/4W 1/4W
R847 R848 R849	1-249-435-11 1-249-435-11 1-249-427-11	CARBON CARBON CARBON	33K 33K 6.8K	5% 5% 5%	1/4W 1/4W 1/4W	R943 R944 R945	1-249-424-11 1-249-428-11 1-249-434-11	CARBON CARBON CARBON	3.9K 8.2K 27K	5% 5% 5%	1/4W 1/4W 1/4W
R901 R902 R903	1-249-441-11 1-249-441-11 1-249-441-11	CARBON CARBON CARBON	100K 100K 100K	5% 5% 5%	1/4W 1/4W 1/4W	R946 R947 R948	1-249-422-11 1-249-424-11 1-249-428-11	CARBON CARBON CARBON	2.7K 3.9K 8.2K	5% 5% 5%	1/4W 1/4W 1/4W
R904 R905 R906	1-249-441-11 1-249-441-11 1-249-441-11	CARBON CARBON CARBON	100K 100K 100K	5% 5% 5%	1/4W 1/4W 1/4W	R949 R950	1-249-434-11	CARBON CARBON	27K 6.8K	5% 5%	1/4W 1/4W
	1-249-441-11 1-216-242-00	CARBON METAL GLAZE	100K 68K	5% 5%	1/4W 1/8W		1-249-428-11 1-249-413-11	CARBON CARBON	8.2K 470	5% 5%	1/4W 1/4W
	1-249-441-11	CARBON METAL GLAZE	100K 100K	5% 5%	1/4W 1/8W		1-249-425-11 1-249-413-11	CARBON CARBON	4.7K 470	5% 5%	1/4W 1/4W
R909A	1-249-441-11	CARBON METAL GLAZE	100K 100K	5% 5%	1/4W 1/8W		1-249-429-11 1-247-881-00	CARBON CARBON	10K 120K	5% 5%	1/4W 1/4W
R910A	1-249-441-11	CARBON	100K	5%	1/4W	R954A R954B	1-249-429-11 1-247-881-00	CARBON CARBON	10K 120K	5% 5%	1/4W 1/4W
R911A	1-216-238-00	METAL GLAZE CARBON	47K 100K	5% 5%	1/8W	R955A R955B	1-249-425-11 1-249-429-11	CARBON CARBON	4.7K 10K	5% 5%	1/4W 1/4W
	1-216-182-00	METAL GLAZE CARBON	220 100K	5% 5%	1/8W 1/4W	1	1-249-425-11 1-249-417-11	CARBON CARBON	4.7K 1K	5% 5%	1/4W 1/4W
R91 2B	1-216-182-00	METAL GLAZE	220	5%	1/8W	R957	1-249-417-11	CARBON	1K	5%	1/4W
	1-249-441-11 1-216-150-00	CARBON METAL GLAZE	100K 10	5% 5%	1/4W 1/8W	R958 R959 R960	1-247-891-00 1-247-901-11 1-249-441-11	CARBON CARBON CARBON	330K 820K 100K		1/4W 1/4W 1/4W
	1-249-441-11 1-216-150-00	CARBON METAL GLAZE	100K 10	5 % 5 %	1/4W 1/8W	R1001 R1002	1-249-408-11	CARBON CARBON	180 180	5% 5%	1/4W 1/4W
	1-249-441-11 1-216-150-00	CARBON METAL GLAZE	100K 10	5% 5%	1/4W 1/8W	R1 051	1-249-412-11	CARBON	390	5%	1/4W
R916 R917 R918	1-249-441-11 1-249-441-11 1-249-441-11	CARBON CARBON CARBON	100K 100K 100K	5% 5% 5%	1/4W 1/4W 1/4W	RV151	1-228-993-00 1-228-995-00 1-228-994-00	RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR	BON 22 BON 10	K K	
R919 R920 R921	1-249-441-11 1-249-441-11 1-249-441-11	CARBON CARBON CARBON	100K 100K 100K	5% 5% 5%	1/4W 1/4W 1/4W		1-228-993-00 1-228-995-00 1-228-993-00	RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR	BON 22	K	
R922 R923 R924	1-247-903-00 1-215-452-00 1-215-452-00	CARBON METAL METAL	1 M 20K 20K	5% 1% 1%	1/4W 1/6W 1/6W	RV231 RV251 RV252	1-228-995-00 1-228-994-00 1-228-993-00	RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR	BON 10	K	
R925 R926 R927	1-215-445-00 1-215-452-00 1-215-445-00	METAL METAL METAL	10K 20K 10K	1% 1% 1%	1/6W 1/6W 1/6W	RV253 RV541 RV551	1-228-995-00 1-238-085-11 1-238-687-11	RES, ADJ, CAR REA, VAR, CAR RES, VAR, CAR	BON 20	K/20K(
R928 R929 R930	1-215-452-00 1-215-445-00 1-215-452-00	METAL METAL METAL	20K 10K 20K	1% 1% 1%	1/6W 1/6W 1/6W	RV552 RV553 RV561	1-238-833-21 1-238-832-11 1-238-834-11	RES, VAR, CAR RES, VAR, CAR RES, VAR, CAR	BON 5K	/5K (R	REC LEVEL)
R931 R932 R933	1-215-445-00 1-215-452-00 1-215-445-00	METAL METAL METAL	10K 20K 10K	1% 1%	1/6W 1/6W 1/6W	RV571 RV572 RV573	1-230-504-11 1-230-504-11 1-228-993-00	RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR	BON 22	0	
R934 R935 R936	1-215-452-00 1-215-445-00 1-215-460-00	METAL METAL METAL	20K 10K 43K	1% 1% 1%	1/6W 1/6W 1/6W		1-228-996-00 1-228-993-00	RES, ADJ, CAR RES, ADJ, CAR	BON 47 BON 4.	K 7K	

Ref.No.	Part No.	Description
S521 S522 S523	1-572-154-11	SWITCH, PUSH (1 KEY)(CD DIRECT) SWITCH, ROTARY (DOLBY NR) SWITCH, PUSH (3 KEY) (MPX FILTER/HXPRO/CALIBRATION)
\$701 <u>A</u> \$801 \$901	1-570-103-21 1-516-781-XX 1-554-303-21	SWITCH, PUSH (1 KEY)(POWER) SWITCH, SLIDE (TIMER) SWITCH, KEY BOARD (COUNTER RESET)
\$902 \$903 \$904	1-554-303-21 1-554-303-21 1-554-303-21	SWITCH, KEY BOARD (COUNTER MEMORY) SWITCH, KEY BOARD (OPEN/CLOSE) SWITCH, KEY BOARD (■)
S905 S906 S907	1-554-303-21 1-554-303-21 1-554-303-21	SWITCH, KEY BOARD (◀) SWITCH, KEY BOARD (▶) SWITCH, KEY BOARD (•)
S908 S909 S910	1-554-303-21 1-554-303-21 1-554-303-21	SWITCH, KEY BOARD (▶) SWITCH, KEY BOARD (▮) SWITCH, KEY BOARD (▮)
S911 S912 S913	1-554-303-21 1-554-303-21 1-554-303-21	SWITCH, KEY BOARD (►) SWITCH, KEY BOARD (O) SWITCH, KEY BOARD (DISPLAY)
S914 S1001 S1002	1-554-303-21 1-466-238-11 1-570-953-11	SWITCH, KEY BOARD (MONITOR) ENCODER, ROTARY SWITCH, PUSH (1 KEY)(DOOR)
\$1003 \$1004 \$1005	1-571-958-11 1-572-126-11 1-572-125-11	SWITCH, PUSH (1 KEY)(CLOSE) SWITCH, PUSH (1 KEY)(OPEN) SWITCH, LEAF (FWD)
\$1006 \$1007 \$1008	1-572-202-11 1-572-125-11 1-572-125-11	SWITCH, LEAF (HALF) SWITCH, LEAF (METAL) SWITCH, LEAF (70M)
T151 T251 T561	1-433-360-11 1-433-360-11 1-433-359-11	TRANSFORMER, BIAS OSCILLATION TRANSFORMER, BIAS OSCILLATION TRANSFORMER, BIAS OSCILLATION
T701 🕭	1-449-985-11 1-449-986-11 1-450-065-11	(US,Canadian)TRANSFORMER, POWER (WG,UK)TRANSFORMER, POWER (E)TRANSFORMER, POWER
	*1-569-066-11	PIN, CONNECTOR 5P (4.934MHz)
	1-570-307-11	(E)SWITCH, VOLTAGE CHANGE
X801 X901 X951	1-577-358-21 1-577-101-11 1-577-615-11	VIBRATOR, CERAMIC (4MHz) VIBRATOR, CERAMIC (4.19MHz) VIBRATOR, CRYSTAL (4.934MHz)

ACCESSORY & PACKING MATERIAL

1-465-314-11 2-181-754-01	(E)REMOTE COMMANDER (RM-J701) (E)COVER, BATTERY (FOR RM-J701)
1-551-734-11 3-703-450-01 3-704-366-01	CORD, CONNECTION (RK-74A) (US)INSTRUCTION (WG,K850ES:E)SCREW (CASE) (M3X8)
*3-350-463-01 *3-356-960-01	(US,Canadian,UK,K222ESG)CUSHION(WG,K850ES:E)CUSHION
*3-350-464-31 *3-350-464-41 *3-354-919-11	(US,Canadian,UK)INDIVIDUAL CARTON (K222ESG)INDIVIDUAL CARTON (WG,K850ES:E)INDIVIDUAL CARTON
3-751-089-11 3-751-089-21 3-751-764-11	(Canadian,WG,UK,E)MANUAL, INSTRUCTION (US)MANUAL, INSTRUCTION (E)MANUAL, INSTRUCTION
*3-703-710-41	STICKER, SONY SYMBOL (12)

Note:
The components identified by mark A or dotted line with mark are critical for safety.
Replace only with part number specified.

Note:

Note:
Les composants identifiés par une marque A sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.